Science (General)
For applied science and technology, see Class T
Periodicals. By language of publication

1.A1       Polyglot
1.A3-Z       English
2       French
3       German
4       Other languages (not A-Z)
(9)    Yearbooks
        see Q1+
Collected works (nonserial) see Q11+
Societies
        Including works about societies, serial publications of societies
10       International
America
11       United States
21       Canada
22       Latin America
23       Mexico
25       Central America
29       West Indies
33       South America
Europe
41       Great Britain
44       Czechoslovakia
44.2       Hungary
44.4       Austria
46       France
49       Germany
52       Greece
54       Italy
55       Vatican City
56       Belgium
56.2       Luxembourg
57       Netherlands
60       Soviet Union
60.18       Ukraine
60.2       Finland
60.4       Poland
        Baltic States
60.6       Estonia
60.7       Latvia
60.8       Lithuania
61       Scandinavia (General)
62       Denmark. Iceland
63       Norway
64       Sweden
Societies
   Europe -- Continued
65     Spain. Portugal
67     Switzerland
69     Romania
69.2    Yugoslavia
69.3    Slovenia
69.4    Bulgaria
   Turkey see Q80.T8

Asia
72     China
72.5    Taiwan
73     India
74     Indochina
75     Indonesia
76     Philippines
77     Japan
80.A-Z  Other regions or countries, A-Z
   e.g.
80.C4    Ceylon. Sri Lanka
80.I67    Iran
80.I7     Israel
80.J67    Jordan
80.K6     Korea
80.P3     Pakistan
80.Q38    Qatar
80.R8     Russia in Asia. Siberia
80.S2     Saudi Arabia
80.S5     Singapore
80.S64    Southeast Asia
        Sri Lanka see Q80.C4
80.S9     Syria
80.T5     Thailand
80.T8     Turkey
82     Arab countries
83     Islamic countries
   Africa
85     South Africa
85.2    Kenya
85.4    Nigeria
85.6    Zimbabwe
85.8    Namibia. South-West Africa
87     Egypt
89     Senegal
89.2    Mauritius
89.5    Sudan
91.A-Z  Other regions or countries, A-Z
Societies
Africa

Other regions or countries, A-Z -- Continued

91.A47             Algeria
91.A5             Angola
91.B45             Benin
91.B85             Burkina Faso
91.B87             Burundi
91.C17             Cameroon
91.C4             Central Africa
91.C48             Chad
91.C6             Congo (Democratic Republic). Zaire
91.E84             Ethiopia
91.G5             Ghana
91.M27             Madagascar
91.M3             Malawi
91.M55             Morocco
91.M6             Mozambique
(91.N28)             Namibia
see Q85.8
91.S9             Sub-Saharan Africa
91.S95             Swaziland
91.T8             Tunisia
91.Z33             Zambia
93             Australia
94             New Zealand
99             Pacific islands
101             Congresses

Museums. Exhibitions

Cf. Q182.4 Science fairs

105.A1             General works
105.A2-Z             By region or country, A-Z
                      Subarrange each country by Table Q5

Collected works

111             Series of monographs. Serial collections (nonperiodical)
                      For serial publications of universities or other serial
                      publications not issued by societies see Q1+
                      For serial publications of societies see Q10+

113             Collected works of individual authors

Scientific voyages and expeditions (General)

For expeditions of special fields, see the field, e.g. G145+
Geographical exploration; QH11 Naturalists’ expeditions;
TL799 Flights to special planets; etc.

115             General works
116             Handbooks for scientific expeditions
121             Encyclopedias
123             Dictionaries
124    Translating services. Translating
      Cf. T11.5 Technical translating

History

  Including science and state

124.6  Periodicals, societies, congresses, serial publications
124.7  Collected works (nonserial)
124.8  Dictionaries and encyclopedias
124.85 Nomenclature, terminology, notation, abbreviations
     General works see Q125+

124.95 Ancient
124.97 Medieval

Modern

125      General works
125.2    Renaissance through 1700
125.4    Outlines, syllabi
125.6    Pictorial works and atlases
126      Popular works
126.4    Juvenile works
126.8    Addresses, essays, lectures
126.9    Study and teaching. Research
127.A-Z  By region or country, A-Z
      e.g.
127.G4  Great Britain
127.G7  Greece
127.2    Developing countries

128    Contributions to science. By religious or ethnic groups

130    Women in science. Women scientists
      For biography see Q141+
      Cf. HQ1397 Women in science and the arts

Biography

141    Collective
143.A-Z  Individual, A-Z
      e.g.
143.G4  Galvani, Luigi
143.H5  Helmholtz, Hermann von
143.P2  Pasteur, Louis
143.S8  Swedenborg, Emanuel

145    Directories

Science as a profession. Vocational guidance
      Cf. Q130 Women in science

147      General works
148      Employment surveys, manpower requirements, statistics, etc.
149.A-Z  By region or country, A-Z

Brain drain

150      General works
150.2.A-Z  By region or country, A-Z
<table>
<thead>
<tr>
<th>Category</th>
<th>Code</th>
<th>Date Range</th>
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<tbody>
<tr>
<td>Early works through 1800</td>
<td>151</td>
<td>Ancient</td>
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<tr>
<td></td>
<td>153</td>
<td>Medieval</td>
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<td>155</td>
<td>1500-1700</td>
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<td></td>
<td>157</td>
<td>1701-1800</td>
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<tr>
<td>General works and treatises</td>
<td>158</td>
<td>1801-1969</td>
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<tr>
<td>Textbooks</td>
<td>158.5</td>
<td>1970-</td>
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<tr>
<td>Advanced</td>
<td>160</td>
<td>1801-1969</td>
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<td>Elementary</td>
<td>160.2</td>
<td>1970-</td>
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<tr>
<td>Pictorial works and atlases</td>
<td>161</td>
<td>1801-1969</td>
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<td>1970-</td>
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<td>161.7</td>
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<tr>
<td>Popular works</td>
<td>162</td>
<td></td>
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<tr>
<td>Juvenile works</td>
<td>163</td>
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<tr>
<td>Recreations, home experiments, etc.</td>
<td>164</td>
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<tr>
<td>Including experiments for children</td>
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<td>Anecdotes, facetiae, satire, etc.</td>
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<tr>
<td>Addresses, essays, lectures</td>
<td>171</td>
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<tr>
<td>Special aspects of the subject as a whole</td>
<td>172</td>
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<tr>
<td>Special topics, A-Z</td>
<td>172.5</td>
<td></td>
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<tr>
<td>Chaotic behavior in systems</td>
<td>172.5.C45</td>
<td></td>
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<tr>
<td>Including pattern formation</td>
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<td></td>
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<tr>
<td>Creative ability in science</td>
<td>172.5.C74</td>
<td></td>
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<tr>
<td>Errors</td>
<td>172.5.E77</td>
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<tr>
<td>Fraud</td>
<td>(172.5.F7)</td>
<td>see Q175.37</td>
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<tr>
<td>Heresy in science</td>
<td>172.5.H47</td>
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<tr>
<td>International cooperation</td>
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<tr>
<td>Music</td>
<td>172.5.M87</td>
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<tr>
<td>Parapsychology and science</td>
<td>see BF1045.S33</td>
<td>Pattern formation see Q172.5.C45</td>
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<td>Popular culture</td>
<td>172.5.P65</td>
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<td>Pseudoscience</td>
<td>172.5.P77</td>
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<td>Public opinion</td>
<td>172.5.P82</td>
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<tr>
<td>Science indicators</td>
<td>172.5.S34</td>
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<td>Serendipity in science</td>
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</tbody>
</table>
Special topics, A-Z -- Continued

172.5.V37
Variational principles
Cf. QC174.17.V35 Quantum theory

173
Miscellany and curiosa

Philosophy. Methodology
Cf. B67 Philosophy in relation to science
Cf. BF1275.S3 Spiritualism and science
Cf. BJ57 Ethics and science
Cf. BL239+ Religion and science
Cf. BT590.S4 Christ and science

174
Periodicals, societies, congresses, serial publications
174.6
Collected works (nonserial)
174.7
Dictionaries and encyclopedias
174.8
History
175
General works, treatises, and advanced textbooks
175.2
Juvenile works
175.3
Addresses, essays, lectures
175.32.A-Z
Special topics, A-Z
175.32.A24
Abduction (Logic)
175.32.A47
Aesthetics
175.32.C38
Causation
175.32.C65
Complexity (Philosophy)
Computer models see Q175.32.S5
175.32.C66
Constructive realism
175.32.D52
Dialectical materialism
175.32.D53
Dialogue
175.32.D96
Dynamics
175.32.E44
Emergence (Philosophy)
Epistemology, Virtue see Q175.32.V57
175.32.E85
Evolution
175.32.E97
Explanation
175.32.H95
Hylomorphism
175.32.I34
Idéologues (French philosophers)
175.32.I54
Inference
175.32.I58
Intellectual freedom
175.32.K45
Knowledge, Theory of
Logic see Q175.32.R45
175.32.M38
Mathematical models. Mathematics
175.32.M43
Meaning (Philosophy)
175.32.N38
Naturalism
175.32.N68
Nothing (Philosophy)
175.32.O27
Observation
175.32.O58
Ontology
Cf. Q387.4 Ontologies in information theory
175.32.P37
Paradox
175.32.R42
Realism
175.32.R45
Reasoning. Logic
### Philosophy. Methodology

**175.32.R47**
Reductionism

**175.32.S5**
Simulation. Computer models
- Class here works on philosophical and methodological aspects of simulation and computer modeling in science
- For works on the mathematics of computer simulation see QA76.9.C65

**175.32.S78**
Structuralism

**175.32.S83**
Subjectivity

**175.32.T56**
Time

**175.32.T78**
Truth

**175.32.V35**
Values

**175.32.V57**
Virtue epistemology

**175.32.V65**
Vitalism

### Scientific ethics
- Cf. Q180.55.M67 Moral and ethical aspects of research

**175.35**
General works, treatises, and textbooks

**175.37**
Fraud

### Social aspects
- Class here works that discuss the impact of science on modern society and the sociology of science.
- For works on the role of science in the history and development of civilization see CB478

**175.4**
Periodicals, societies, congresses, serial publications

**175.46**
History

**175.5**
General works, treatises, and textbooks

**175.52.A-Z**
By region or country, A-Z

**175.54**
Developing countries

**175.55**
Addresses, essays, lectures

**176**
Periodicity. Cycles

**177**
Classification of the sciences
- Cf. BD239.2+ Speculative philosophy

**179**
Nomenclature, terminology, notation, abbreviations

### Research
- Periodicals, societies, congresses, serial publications
- Collected works (nonserial)
- Communication of information
- General works
- Information services
- Computer network resources
  - Including the Internet
- Directories

**180.A1**
General works, treatises, and advanced textbooks

### History

**180.A3**
General works

**180.A5-Z**
By region or country, A-Z
Research -- Continued

180.2 Juvenile works
180.3 Handbooks, tables, formulas, etc.
180.4 Anecdotes, facetiae, satire, etc.
180.5 Addresses, essays, lectures
180.55.A-Z Special topics, A-Z
    Prefer classification by country
180.55.A83 Audiovisual aids
180.55.C54 Citizen participation
180.55.C55 Classification
180.55.C6 Cost
180.55.D57 Discoveries
  Econometric models see Q180.55.E25
180.55.E25 Economic aspects
    Including econometric models
    For works on the impact of research on the economy
    see HC79.R4
180.55.E4 Electronic data processing
180.55.E58 Environmental aspects
180.55.E65 Equipment and supplies
180.55.E9 Evaluation
180.55.F5 Finance
180.55.G6 Government support
180.55.G77 Group work
180.55.I45 Information technology
180.55.I48 Interdisciplinary research
    International cooperation see Q172.5.I5
180.55.M3 Management
180.55.M38 Mathematical models
180.55.M4 Methodology
180.55.M67 Moral and ethical aspects
180.55.P7 Proposal writing
180.55.P75 Psychological aspects
180.55.Q36 Quantitative research
180.55.R43 Reduced gravity environments
180.55.S62 Social aspects
180.55.S7 Statistical methods
180.55.V6 Vocational guidance

Laboratories
180.56 General works
180.57 Management
180.58 Records. Laboratory notebooks
180.6.A-Z By region or country, A-Z
    Subarrange each country by Table Q6
180.7 Astronautics in science
    Cf. TL798.S3 Scientific satellites
Study and teaching

Class here works on the study and teaching of general science at
all levels or at the secondary level and higher.

For works on the study and teaching of general science in
elementary schools or in both elementary and
secondary schools see LB1585+

For programmed texts see Q160+

Cf. Q190+ Audiovisual aids in science teaching

181.A1 Periodicals, societies, congresses, serial publications
181.A2-Z General works, treatises, and textbooks
181.3 Addresses, essays, lectures
181.5 Outlines, syllabi
182 Problems, exercises, examinations
182.3 Experiments
  Including science projects
  Cf. Q164 Recreations, home experiments, etc.
182.4 Science fairs
182.5 Laboratory manuals
182.6 Competency-based education
182.7 Electronic information resources
  Including computer network resources, the Internet, digital
  libraries, etc.

Laboratories

183.A1 General works
183.A3-Z By region or country, A-Z
  Subarrange each country by Table Q6

By region or country

United States

183.3.A1 General works
183.3.A2-Z By region or state, A-Z
  Subarrange each state by Table Q7
183.4.A-Z Other regions or countries, A-Z
  Subarrange each country by Table Q7

183.9 Data processing

Instruments and apparatus (General)

184 Periodicals, societies, congresses, serial publications
184.5 Dictionaries and encyclopedias
185 General works, treatises, and textbooks
185.3 Juvenile works
185.7 Catalogs

Audiovisual aids in science teaching

190 General works, treatises, and textbooks
192 Films. Motion pictures
194 Radio
196 Television
197 Other (not A-Z)
199 Handbooks, tables, formulas, etc.
209 Science readers in English
Science readers for the study of foreign languages
see PA-PM

(211) Science readers in French
see PC2127.S4

(213) Science readers in German
see PF3127.S3

(215) Science readers in Italian
see PC1127.S3

(219) Science readers in other languages, see PA-PM

222 Scientific illustration
Cf. T11.8 Technical illustration

Communication in science
Cf. Q124 Translating services. Translating
Cf. R118+ Communication in medicine
Cf. T10.5+ Communication of technical information

223 General works
Information services
Including information centers

223.2 Periodicals, societies, congresses, serial publications

223.5 Directories

224 General works

224.3.A-Z By region or country, A-Z
Subarrange each country by Table Q5

224.5 Electronic information resources
Including computer network resources, the Internet, digital libraries

Science news. Science and the public

225 General works

225.2.A-Z By region or country, A-Z

225.5 Scientific literature

226 Scientific language
Cf. T11+ Scientific writing

227 Science secretaries. Scientific correspondence

295 System theory
Cf. T57.6+ Operations research. Systems analysis
Cf. TA168 Systems engineering

Cybernetics
Cf. QA75+ Computer science
Cf. QA267+ Machine theory
Cf. QA402.3+ Control theory (Mathematics)
Cf. QP351+ Nervous system and the senses
Cf. TJ212+ Control engineering
Cf. TK7885+ Computer engineering

300 Periodicals, societies, congresses, serial publications

303 Collected works (nonserial)

304 Dictionaries and encyclopedias
Cybernetics -- Continued

305 History
310 General works, treatises, and textbooks
315 Popular works
315.5 Addresses, essays, lectures
316 Study and teaching. Research

Bionics
317 Periodicals, societies, congresses, serial publications
317.5 Collected works (nonserial)
320 General works, treatises, and textbooks
320.5 Juvenile works
321 Addresses, essays, lectures

Self-organizing systems. Conscious automata
325 General works
325.5 Machine learning
325.6 Reinforcement learning
325.7 Computational learning theory
325.75 Supervised learning
325.78 Back propagation
327 Perceptron theory
Cf. TK7882.P3 Pattern recognition systems

Artificial intelligence
334 Periodicals, societies, congresses, serial publications
334.2 Dictionaries and encyclopedias
334.5 Collected works (nonserial)
334.7 Philosophy
335 General works, treatises, and textbooks
335.4 Juvenile works
335.5 Addresses, essays, lectures
335.7 Study and teaching. Research
336 Data processing
337 Distributed artificial intelligence
337.3 Swarm intelligence
337.5 Pattern recognition systems
338 Truth maintenance systems
338.8 Case-based reasoning
338.85 Commonsense reasoning
339 Default reasoning
339.19 Model-based reasoning
339.2 Nonmonotonic reasoning
339.25 Qualitative reasoning
340 Constraints
341 Turing test
342 Computational intelligence
Cybernetics -- Continued

Information theory
  Cf. P87+ Communication
  Cf. QA268 Coding theory (Mathematics)
  Cf. TK5101+ Telecommunication (General)
  Cf. ZA3038+ Information resources
350  Periodicals, societies, congresses, serial publications
352  Dictionaries and encyclopedias
355  History
360  General works, treatises, and textbooks
365  Popular works
367  Addresses, essays, lectures
370  Measurements, Tables, calculations, etc.
375  Uncertainty theory
380  Noise
385  Rate distortion theory
386  Statistical methods
  Knowledge representation
387  General works
387.2  Conceptual structures
387.3  Description logics
387.4  Ontologies
  Cf. Q175.32.O58 Ontology in the philosophy of science
387.5  Semantic networks
390  Frames
(500-510) Operations research
  see T57.6+
Mathematics

1 Periodicals, societies, congresses, serial publications
2 Collected works (nonserial)
3 Dictionaries and encyclopedias
4 Addresses, essays, lectures

Philosophy

Cf. QA9.615 Recursive functions. Recursive arithmetic
Cf. QA248+ Foundations of arithmetic. Set theory
Cf. QA267+ Machine theory
Cf. QA681 Foundations of geometry

8 Periodicals, societies, congresses, serial publications
8.4 General works, treatises, and textbooks
8.6 Addresses, essays, lectures
8.7 Study and teaching. Research

Mathematical logic

9.A1 Periodicals, societies, congresses, serial publications
9.A5-Z General works, treatises, and textbooks
9.2 Addresses, essays, lectures
Study and teaching. Research see QA8.7

Classical logical systems
Including reverse mathematics

9.25 General works

9.3 Propositional calculus
9.35 Predicate calculus
9.37 Infinitary languages

Nonclassical formal systems

9.4 General works
9.45 Many-valued logic
9.46 Modal logic
Cf. BC199.M6 Logic
9.47 Intuitionistic mathematics
9.5 Combinatory logic and lambda calculus
9.54 Proof systems

Constructive mathematics

9.56 General works
9.58 Algorithms
9.59 Computable functions. Computability theory

Recursion theory
Cf. QA267+ Machine theory

9.6 General works
9.615 Recursive functions. Recursive arithmetic
9.62 Hierarchies
9.63 Unsolvability

9.64 Fuzzy logic

Methodology of deductive systems
9.65 Decidability. Gödel's theorem. Gödel numbers
9.67 Completeness
Philosophy
Mathematical logic -- Continued

9.7     Model theory
9.8     Metamathematics
9.9     Matrix logic
         Algebraic logic
10     General works
10.3    Boolean algebra
         Cf. QA268.5 Switching theory
10.35   Quantum logic
10.4    Information theory in mathematics
10.5    Mathematics as a profession. Vocational guidance
10.7    Social aspects
10.8    War and mathematics

Study and teaching. Research
For computer-assisted instruction in mathematics see QA20.C65
For use of electronic computers in mathematics see QA76.95
Cf. QA135+ Elementary mathematics

11.A1    Periodicals, societies, congresses, serial publications
         General works, treatises, and textbooks
11.A2-Z  To 2000
11.2     2001-
11.5     Computer network resources
         Including the Internet
12     Addresses, essays, lectures
         By region or country
         United States
         General works
13.5.A-Z  By region or state, A-Z
         Subarrange each state by Table Q7
14.A-Z    Other regions or countries, A-Z
         Subarrange each country by Table Q7

Special teaching methods and aids
16     General works
18     Audiovisual aids
19.A-Z   General works, treatises, and textbooks
19.A78   Special types, A-Z
19.B8    Blocks (Toys)
19.C45   Charts, diagrams, etc.
19.C8    Cuisenaire rods
19.L58   Literature
19.M34   Manipulatives
19.M6    Motion pictures
Study and teaching. Research
Special teaching methods and aids
Audiovisual aids
  Special types, A-Z -- Continued
  19.M87                Music
  19.O9                Overhead projectors
  19.P34                Paper work
  Including folding, cutting, etc.
  19.P53                Picture books
  19.T4                Television
  Authorship see QA20.M38
20.C34                Calculators
20.C65                Computer-assisted instruction
  Including computer-based experiments
20.E43                Electronic spreadsheets
20.F67                Forums (Discussion and debate)
20.G35                Games
20.G47                Gesture
20.G76                Group guidance
20.H54                Hieroglyphics
20.I53                Individualized instruction
  Intervention, Response to see QA20.R47
20.M33                Magic tricks
20.M38                Mathematical writing. Authorship
20.M63                Mobile communication systems
20.P49                Physical education
20.P67                Portfolios
20.P7                Programmed instruction
  For programmed texts, see QA36.5+ QA101+
20.P73                Project method
20.R43                Reading comprehension
20.R47                Response to intervention
20.T43                Teaching teams
20.U55                Unit method of teaching
20.W46                Whole brain learning
20.3                Awards, prizes, etc. Competitions
History
  21                General
  22                Ancient
  23                Medieval
  Modern
  General see QA21
  24                16th-18th centuries
  26                19th-20th centuries
27.A-Z                By region or country, A-Z
27.5 Women in mathematics. Women mathematicians
   For biography see QA28+

Biography
28 Collective
   e.g.
   29.G3 Gauss
   29.J2 Jacobi
   29.N2 Napier
30 Directories
   Early works through 1800
   30.3 Egyptian
   31 Greek
      Including translations and commentaries
      For Euclid's Elements for use in schools see QA451
   32 Medieval
   33 1501-1700
   35 1701-1800

General works
36 Comprehensive treatises
   Textbooks
   36.5 Series of textbooks
      Advanced
      37 1801-1969
      37.2 1970-2000
      37.3 2001-
      Intermediate (without calculus)
      39 1801-1969
      39.2 1970-2000
      39.3 2001-
      Elementary see QA101+
40 Handbooks, manuals, etc.
   Popular works see QA93
40.5 Juvenile works
41 Formulas, notation, abbreviations
   Nomenclature, terminology
   Communication of mathematical information
   General works
41.4 Information services
41.5 Computer network resources
   Including the Internet
41.7 Mathematical literature
42 Language. Authorship
   Cf. QA20.M38 Mathematical writing in mathematics study
   and teaching
43 Problems, exercises, examinations
Tables
  Cf. QA281 Interpolation. Extrapolation
47  General tables
49  Multiplication tables
      Including squares and cubes, square roots and cube roots, reciprocals
51  Factor tables
55  Logarithms. Tables of mathematical functions
      Including trigonometric, hyperbolic, etc.
59  Theory and use of logarithms
63  Problem solving

Instruments and machines
  Including practical mathematics, graphical and numerical calculating
71  General works, treatises, and textbooks
73  Slide rules
74  Computation laboratories
Calculating machines
  For works on the use of calculators in mathematic instruction see QA20.C34
75  Electronic computers. Computer science
  Including electronic data processing and computer systems
  For applications in special fields, see the field, e.g.
  QD39.3.E46, Electronic data processing in chemistry
  Cf. QA267+ Machine theory
  Cf. TK7885+ Computer engineering

75.5  Periodicals, societies, congresses, serial publications
76  General works, treatises, and textbooks
76.15  Dictionaries and encyclopedias

Communication of computer science information
76.16  General works
76.162  Information services
76.165  Language. Authorship
76.167  Philosophy
76.17  History
76.2.A2  Biography

76.2.A3-Z  Collective
76.215  Directories
76.23  Juvenile works
76.24  Addresses, essays, lectures
76.25  Computer science as a profession. Vocational guidance

Study and teaching. Research
76.27  General works
76.28  Problems, exercises, examinations

17
Instruments and machines
Calculating machines
Electronic computers. Computer science
Study and teaching. Research -- Continued

76.3 Certification of electronic data processing personnel
Class here works on certification in general
For works on certification on special topic, prefer
classification with the special topic, e.g.,
QA76.73.J38 Study guide for Java certification

76.33 Computer camps

Laboratories

76.35 General works
76.36.A-Z Individual laboratories, A-Z

76.38 Hybrid computers

76.4 Analog computers

Digital computers

76.5 General works
76.52 Juvenile works
76.525 Microcomputer workstations
76.527 Network computers
For works on computer network management see
TK5105.548+

Computer scheduling

76.529 General works
76.5295.A-Z Special topics, A-Z
76.5295.A34 Affinity scheduling
76.5295.P37 Parallel scheduling

76.53 Time-sharing data processing

76.54 Real-time data processing

76.545 Transaction systems

Online data processing
Including general online information services and general
videotex systems

76.55 General works
76.57.A-Z Special systems, A-Z
76.57.A43 America Online
76.57.A77 AT&T WorldNet
76.57.C65 CompuServe
76.57.D44 DELPHI
76.57.E88 eWorld (Online service)
76.57.G45 GEnie (Videotex system)
76.57.G48 GNN
76.57.M52 Microsoft Network
76.57.M55 Minitel
76.57.P75 Prodigy (Online service)
76.57.P77 ProfNet
Instruments and machines
Calculating machines
Electronic computers. Computer science
Digital computers
Online data processing
Special systems, A-Z -- Continued

76.57.S68 SOURCE (Videotex system)
76.57.T44 TÉLÉTEL (Videotex system)
76.57.U43 UMI Online (Videotex system)
76.575 Multimedia systems
Cf. QA76.76.159 Interactive multimedia
76.58 Parallel processing. Parallel computers
76.585 Cloud computing
76.59 Mobile computing
76.5913 Semantic computing
76.5915 Ubiquitous computing
76.592 Wearable computers
Programming
For computer programs and other software see QA76.75+
76.6 General works
76.612 Constraint programming
76.615 Declarative programming
76.618 Evolutionary programming
76.62 Functional programming
Including functional programming languages
76.623 Genetic programming
76.624 Generative programming
76.6245 Generic programming
76.625 Internet programming. Intranet programming
76.63 Logic programming
76.635 Microprogramming
76.637 Modular programming
76.64 Object-oriented programming and programs
Including OPEN method
76.642 Parallel programming
76.65 Visual programming
76.66 Systems programming
Programming languages
76.7 General works
Instruments and machines
Calculating machines
Electronic computers. Computer science
Digital computers
Programming languages -- Continued

76.73.A-Z

Individual languages, A-Z

Some entries in the following list appear to be out of alphabetical order because filing rules for initialisms and acronyms changed in 1981. This list is incomplete. Beginning in 2013 entries are printed for new programming languages. Generally create Cutters for new entries after .x25 using current filing rules.

76.73.A12
ABAP

76.73.A24
ALGOL

76.73.A27
APL

76.73.A35
Ada

76.73.A67
AppleScript

76.73.A8
Assembly languages. Assemblers
Class here general works on Assembly languages and assemblers, including works on assembling For works on a specific assembly language, see the language, e.g., for X86 assembly language see QA76.73.X16

76.73.A84
AutoLISP

76.73.A95
AWK

76.73.B155
B

76.73.B3
BASIC

76.73.B78
BSV 753

76.73.C15
C

76.73.C153
C++

76.73.C154
C#

76.73.C25
COBOL

76.73.C56
Clipper

76.73.C58
CoffeeScript

76.73.C75
CSP

76.73.C87
Curl

76.73.D138
D

76.73.D14
D*

76.73.D23
Dart

76.73.D25
DRL

76.73.D95
Dylan

76.73.E27
EasyLanguage

76.73.E38
ELAN

76.73.E75
ERLANG

76.73.F16
F

76.73.F23
FOCUS
Instruments and machines
Calculating machines
Electronic computers. Computer science
Digital computers
Programming languages
Individual languages, A-Z -- Continued

76.73.F25 FORTRAN
76.73.F74 FRED
76.73.G25 GW-BASIC
76.73.G63 Go
76.73.H37 Haskell
76.73.H6 HP-GL/2
76.73.H96 HyperTalk
76.73.I22 INFORMIX-4GL
76.73.J2 J#
76.73.J38 Java
76.73.J39 JavaScript
76.73.J63 Job Control Language
76.73.J7 JR
76.73.K63 Kodu
76.73.K67 KornShell
76.73.L23 LISP
76.73.L62 LogiQL
76.73.L63 LOGO
76.73.L66 LotusScript
76.73.L82 Lua
76.73.M15 M
76.73.M29 Mathematica
76.73.M35 Maude
76.73.M39 MDX
76.73.M53 Microsoft Visual Basic
    Including Microsoft Visual Basic for applications
76.73.M6 ML
MySQL see QA76.73.S67
76.73.N39 NCL
76.73.O115 Objective-C
76.73.O213 OpenCL
76.73.P224 PHP
76.73.P25 PL/1
76.73.P32 packetC
76.73.P67 PostScript
    Class here works on designing or writing compilers
    for PostScript
    For works on using PostScript to control the page
    appearance of paper documents, see Z52.5 or
    Z250.8.P68
PowerShell see QA76.73.W56
Instruments and machines
Calculating machines
Electronic computers. Computer science
Digital computers
Programming languages
Individual languages, A-Z -- Continued

76.73.P75                      Processing
76.73.P76                      Prolog
76.73.P98                      Python
76.73.R25                      RPG
76.73.R3                      R (Computer program language)
76.73.R33                      Racket
76.73.R83                      Ruby
76.73.S15                      S
76.73.S27                      SAS (Computer program language)
76.73.S28                      Scala
76.73.S34                      Scheme
76.73.S345                      Scratch
76.73.S35                      SDL
76.73.S59                      SPARK
76.73.S62                      SPARQL
76.73.S67                      SQL. MySQL
76.73.S95                      Swift
76.73.T44                      Tcl
76.73.T97                      TypeScript
76.73.U63                      UPC
76.73.V27                      VBScript
76.73.W56                      Windows PowerShell
76.73.W65                      Wolfram language
76.73.X16                      X86 assembly language
76.73.X57                      XPath
76.73.X58                      XSLT
76.73.Z2                      Z

Computer software
For individual programs, see the type of program, e.g.
    QA76.76.T49 Text editors
For application programs, see the field, e.g. HF5548.4.L67
    Lotus 1-2-3

76.75                      Periodicals, Societies. Serials
76.751                      Congresses
76.752                      Dictionaries
76.753                      Catalogs
76.754                      General works
76.755                      Handbooks, tables, etc.
76.756                      Addresses, essays, lectures
Instruments and machines
Calculating machines
Electronic computers. Computer science
Computer software -- Continued

76.758  Software engineering
    Including software reengineering

76.76.A-Z  Special topics, A-Z
76.76.A54  AngularJS
76.76.A63  Application program interfaces
76.76.A65  Application software
    Including composite applications
(76.76.A87)  Assemblers
    See QA76.73.A8, Assembly languages. Assemblers
    see QA76.73.A8
76.76.A98  Automatic differentiations
76.76.C47  Certification of software
76.76.C54  Children's software
76.76.C64  Compatibility of software
76.76.C65  Compilers
    Including compilers of individual computer
    programming languages
76.76.C66  Component software
    Composite applications see QA76.76.A65
76.76.C672  Computer games
    Class here works on programming computer games
    For general works on computer games as well as
    works on specific computer games and actual
    software see GV1469.15+
76.76.C68  Computer viruses
76.76.C69  Configuration management
76.76.C73  Costs
76.76.D47  Development
76.76.D49  Device drivers
    Including individual device drivers
76.76.D57  Disassemblers
    Including decompilers
76.76.D63  Documentation of software
    Ecosystems, Software see QA76.76.S62
76.76.E93  Evaluation of software
76.76.E95  Expert systems
76.76.F34  Failures of software
    File conversion software see QA76.9.F48
    Frameworks see QA76.76.S63
76.76.F75  Free computer software
    Cf. QA76.76.O62 Open source software
76.76.G46  Generators
76.76.H85  Human factors
Instruments and machines
Calculating machines
Electronic computers. Computer science
Computer software
Special topics, A-Z -- Continued

(76.76.H92) Hypermedia systems
see QA76.76.I59

76.76.H94 Hypertext systems
Including hypertext document markup languages, e.g.
HTML (Document markup language), XML
(Document markup language), etc.

76.76.I55 Install programs
76.76.I57 Integrated software
76.76.I58 Intelligent agents
76.76.I59 Interactive media. Hypermedia
Cf. QA76.575 Multimedia systems

Measurement, Software see QA76.76.S65

76.76.M52 Microsoft .NET Framework
76.76.M54 Middleware
Including object monitors

Object-oriented programs see QA76.64

76.76.O62 Open source software
(76.76.O63) Operating systems
see QA76.77+

76.76.P37 Patterns, Software
76.76.P74 Productivity
76.76.P76 Protection of software
76.76.Q35 Quality control
76.76.R42 Refactoring of software
76.76.R44 Reliability
76.76.R47 Reusability
76.76.S27 SAP NetWeaver Gateway
76.76.S37 Screen savers
76.76.S375 Self-adaptive software
76.76.S46 Shareware
76.76.S62 Software ecosystems
Software failures see QA76.76.F34

76.76.S63 Software frameworks
For special frameworks, see the framework, e.g.,
Microsoft .NET Framework QA76.76.M52

76.76.S64 Software maintenance
Including Year 2000 date conversion

76.76.S65 Software measurement
76.76.S66 Software support
76.76.S69 Spyware
76.76.S73 Standards for software
76.76.S95 Systems software
Instruments and machines
Calculating machines
Electronic computers. Computer science
Computer software
Special topics, A-Z -- Continued

76.76.T45  Teleprocessing monitors
76.76.T47  Termination
76.76.T48  Testing of software
76.76.T49  Text editors

For works on how to use text editors to produce paper documents, see Z52, Z253.3+, or Z253.53+

76.76.T55  Threads
76.76.T83  Translators
76.76.U84  Utilities
76.76.V47  Verification and validation of software
Viruses see QA76.76.C68

76.76.W56  Windows
Class here works on window functionality
For works on individual Microsoft Windows operating systems see QA76.774.A+
Year 2000 date conversion see QA76.76.S64

76.765  Firm-ware
Operating systems
76.77  General works
76.774.A-Z  Individual operating systems. By system, A-Z
76.774.A53  Android
76.774.B47  BSD, Free see QA76.774.F74
76.774.D67  DOS
76.774.F74  FreeBSD
76.774.I67  iOS
76.774.L46  Linux
76.774.M33  Mac OS
Macintosh OS see QA76.774.M33
76.774.M43  Microsoft Windows 7
76.774.M434  Microsoft Windows 8
76.774.M435  Microsoft Windows 10
76.774.M48  Microsoft Windows Me
76.774.M53  Microsoft Windows NT
76.774.M55  Microsoft Windows server
76.774.M56  Microsoft Windows Vista
76.774.M58  Microsoft Windows XP
76.774.S65  Solaris
76.774.U28  Ubuntu
76.774.U64  UNIX
Vista see QA76.774.M56
Windows 7 see QA76.774.M43
Instruments and machines
Calculating machines
Electronic computers. Computer science
Computer software
Operating systems
Individual operating systems. By system, A-Z --
Continued
Windows 8 see QA76.774.M434
Windows 10 see QA76.774.M435
Windows ME see QA76.774.M48
Windows NT see QA76.774.M53
Windows server see QA76.774.M55
Windows Vista see QA76.774.M56
Windows XP see QA76.774.M58

76.8.A-Z Special computers, computer systems, and microprocessors. By name, A-Z

76.8.A54 AN/FSQ-7
76.8.B38 BeagleBone Black
76.8.C46 Chromebook
76.8.E53 ENIAC
76.8.I12 IBM 360
76.8.I63 iPad
76.8.I64 iPhone
76.8.K56 Kindle Fire
76.8.M3 Macintosh
    Including MacBook
76.8.P53 PLATO
76.8.R15 Raspberry Pi
76.8.S25 Samsung
    Including Samsung Galaxy series smartphones
76.8.U6 Univac
76.8.U7 Ural
76.84 Fourth generation computers
76.85 Fifth generation computers
76.87 Neural computers. Neural networks
76.875 Artificial immune systems. Immunocomputers
76.88 Supercomputers. High performance computing
    Including heterogeneous computing
76.884 Biocomputers
76.885 Petaflops computers
76.887 Molecular computers. DNA computers
76.889 Quantum computers
76.89 Pen-based computers
76.893 Tablet computers
76.9.A-Z Other topics, A-Z
76.9.A23 Abstract data types
Instruments and machines
Calculating machines
Electronic computers. Computer science
Other topics, A-Z -- Continued

   Cf. HF5548.37 Security measures in electronic data 
   processing departments
   Cf. TK5105.8855 Internet access control

76.9.A3 Adaptive computing

76.9.A43 Algorithms

76.9.A48 Ambient intelligence

76.9.A73 Architecture, Computer

76.9.A93 Auditing
   Class here works on the auditing of electronic data 
   processing systems and activities
   For works dealing with the auditing of electronic 
   data processing departments see HF5548.35

76.9.A94 Augmented reality

76.9.A95 Automatic hypothesis formation

76.9.A96 Automatic theorem proving

76.9.A97 Autonomic computing

76.9.B22 B method

76.9.B32 Backup processing

76.9.B38 Batch processing

76.9.B45 Big data
   Biologically-inspired computing see QA76.9.N37

76.9.B84 Bulletin boards
   Camps, Computer see QA76.33
   Children and computers see QA76.9.C659
   Civilization and computers see QA76.9.C66

76.9.C55 Client/server computing

76.9.C58 Computational grids
   Computer algorithms see QA76.9.A43
   Computer architecture see QA76.9.A73

76.9.C62 Computer arithmetic
   Computer camps see QA76.33

76.9.C63 Computer capacity

76.9.C64 Computer literacy
   Computer logic see QA76.9.L63
   Computer mathematics see QA76.9.M35

76.9.C643 Computer organization

76.9.C65 Computer simulation
   Cf. T57.62+ Industrial engineering
   Cf. TA343 Engineering mathematics
   Computer system failures see QA76.9.F34

76.9.C659 Computers and children
   Cf. LC40.5.C66 Computer-assisted home schooling
<table>
<thead>
<tr>
<th>Call Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>76.9.C66</td>
<td>Computers and civilization. Social aspects of computers</td>
</tr>
<tr>
<td></td>
<td>Computers and family see QA76.9.F35</td>
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<tr>
<td></td>
<td>Computers and older people see QA76.9.O43</td>
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<tr>
<td></td>
<td>Computers and women see QA76.9.W65</td>
</tr>
<tr>
<td>76.9.C67</td>
<td>Constraint databases</td>
</tr>
<tr>
<td></td>
<td>Conversion of computer files see QA76.9.F48</td>
</tr>
<tr>
<td>76.9.C68</td>
<td>Conversion of computer systems</td>
</tr>
<tr>
<td>76.9.C72</td>
<td>Cookies (Computer science)</td>
</tr>
<tr>
<td></td>
<td>Crowdsourcing see QA76.9.H84</td>
</tr>
<tr>
<td>76.9.C92</td>
<td>Cyberinfrastructure</td>
</tr>
<tr>
<td></td>
<td>Data analysis, Quantitative see QA76.9.Q36</td>
</tr>
<tr>
<td>76.9.D26</td>
<td>Database design</td>
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<tr>
<td>76.9.D3</td>
<td>Database management</td>
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<tr>
<td></td>
<td>Cf. QA76.9.D37 Data warehousing</td>
</tr>
<tr>
<td>76.9.D314</td>
<td>Database security</td>
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<tr>
<td>76.9.D32</td>
<td>Databases</td>
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<tr>
<td></td>
<td>Including online databases and non-relational databases</td>
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<tr>
<td></td>
<td>Cf. QA76.9.W43 Web databases</td>
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<tr>
<td>76.9.D33</td>
<td>Data compression</td>
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<tr>
<td>76.9.D335</td>
<td>Data encryption</td>
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<td>76.9.D337</td>
<td>Data entry</td>
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<tr>
<td>76.9.D338</td>
<td>Data integration</td>
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<tr>
<td>76.9.D3385</td>
<td>Data logging. Event logging</td>
</tr>
<tr>
<td></td>
<td>Class here general works on software generated lists of events</td>
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<tr>
<td></td>
<td>For works on data logging equipment and logs used in a specific field, see the field, e.g., QH324.9.B5</td>
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<tr>
<td></td>
<td>Biotelemetry</td>
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<tr>
<td></td>
<td>For data loggers see TK7895.D28</td>
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<tr>
<td>76.9.D34</td>
<td>Data marts</td>
</tr>
<tr>
<td>76.9.D343</td>
<td>Data mining</td>
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<tr>
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<td>Including OLAP technology and multimedia data mining</td>
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<tr>
<td>76.9.D345</td>
<td>Data preparation</td>
</tr>
<tr>
<td>76.9.D348</td>
<td>Data recovery</td>
</tr>
<tr>
<td>76.9.D35</td>
<td>Data structures</td>
</tr>
<tr>
<td></td>
<td>Cf. QA76.9.C72 Cookies (Computer science)</td>
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<tr>
<td>76.9.D37</td>
<td>Data warehousing</td>
</tr>
<tr>
<td>76.9.D43</td>
<td>Debugging in computer science</td>
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<tr>
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<td>Including structured walkthrough</td>
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<tr>
<td>76.9.D5</td>
<td>Distributed processing</td>
</tr>
<tr>
<td>76.9.D6</td>
<td>Documentation</td>
</tr>
<tr>
<td></td>
<td>Cf. QA76.76.D63 Software documentation</td>
</tr>
</tbody>
</table>
Instruments and machines
Calculating machines
Electronic computers. Computer science
Other topics, A-Z -- Continued

76.9.E25          Economic aspects
76.9.E53          End-user computing
76.9.E57          Entertainment computing
76.9.E58          Environmental aspects
76.9.E77          Error messages
Ethical aspects see QA76.9.M65
76.9.E94          Evaluation of computer performance
76.9.E95          Evaluation of data processing activities
Event logging see QA76.9.D3385
Expert systems see QA76.76.E95
76.9.F34          Failures of computer systems
                   Cf. QA76.76.F34 Software failures
76.9.F35          Computers and family
76.9.F38          Fault-tolerant computing
76.9.F48          File conversion
                   Including individual file conversion software, e.g. Adobe Acrobat
76.9.F5           File organization
76.9.F53          File processing
76.9.F67          Formal methods
76.9.G37          Garbage collection
76.9.G68          Government policy
Granular computing see QA76.9.S63
Graphical user interfaces see QA76.9.U83
Grids, Computational see QA76.9.C58
76.9.H35          Hard disk management
76.9.H36          Hashing
76.9.H84          Human computation. Crowdsourcing
                   Cf. Q337+ Distributed artificial intelligence
76.9.H85          Human-computer interaction
76.9.I52          Information visualization
76.9.I55          Input design
76.9.I58          Interactive computer systems
76.9.K48          Keyboarding
                   Class here works on keyboarding computer formats, such as punched cards or punched tape
                   For works on keyboarding eye-readable reports and displays see Z49+
76.9.L38          Lattice theory
76.9.L63          Logic, Computer
76.9.M3           Management
76.9.M35          Mathematics, Computer
76.9.M45          Memory management
Instruments and machines
Calculating machines
Electronic computers. Computer science
Other topics, A-Z -- Continued

76.9.M65                Moral and ethical aspects
76.9.M68                Multilingual computing
76.9.N37                Natural computation
                                Including biologically-inspired computing
76.9.N38                Natural language processing
                                Cf. P98+ Linguistics
76.9.N47                Netcentric computing
Non-relational databases see QA76.9.D32
76.9.O35                Object-oriented methods
                                Cf. QA76.64 Object-oriented programming
OLAP technology see QA76.9.D343
76.9.O43                Computers and older people
76.9.O59                Olympiads
Online databases see QA76.9.D32
Organization, Computer see QA76.9.C643
76.9.P75                Psychological aspects
76.9.Q36                Quantitative research. Quantitative data analysis
76.9.Q4                 Question-answering systems
Religious aspects see BL255.5
76.9.R45                Remote job entry
76.9.R48                Reversible computing
Security, Computer see QA76.9.A25
Security, Data base see QA76.9.D314
76.9.S54                Self-stabilization
Social aspects of computers see QA76.9.C66
76.9.S63                Soft computing
                                Including granular computing
Software maintenance see QA76.76.S64
76.9.S8                 Standards
                                Cf. QA76.76.S73 Standards for software
76.9.S84                Structured techniques
Structured walkthrough see QA76.9.D43
76.9.S88                System design
System failures see QA76.9.F34
76.9.S9                 Systems migration
76.9.T43                Technical support
                                Cf. QA76.76.S66 Software support
76.9.T48                Text processing
76.9.T7                 Transborder data flow
76.9.U83                User interfaces
                                Including graphical user interfaces
76.9.V5                 Virtual computer systems
Visualization, Information see QA76.9.I52
Instruments and machines
Calculating machines
Electronic computers. Computer science
Other topics, A-Z -- Continued
76.9.W43 Web databases
76.9.W65 Computers and women
76.95 Use of electronic computers in mathematics
For works on the use of calculators in mathematics instruction see QA20.C34
For works on computer-assisted instruction in mathematics see QA20.C65
Miscellaneous geometrical instruments
Cf. T375+ Drawing instruments
77 General works
81 Planimeters
Mechanical aids in higher analysis
85 General works
90 Graphic methods (General). Nomography
93 Popular works
95 Mathematical recreations
For Rubik's Cube, Rubik's Revenge, Rubik's Snake, etc. see QA491
99 Miscellany and curiosia
Elementary mathematics. Arithmetic
Including basic mathematical concepts for the elementary grades
Cf. QA248+ Foundations of arithmetic
Textbooks
101 Through 1845
103 1846-1900
106 1901-1960
107 1961-2000
107.2 2001-
109 Special aspects of the subject as a whole
111 Rapid calculators and short cuts
113 Counting
Class here works dealing with counting, including counting books and other forms of materials
For works dealing with numeration, the concept of numbers, and numeration systems see QA141+
115 Elementary operations
e.g. addition, subtraction, multiplication, division
117 Fractions
Including proportion, ratio
119 Roots
Including square root, cube root
Study and teaching
Cf. LC4621 Education of children with mental disabilities
Elementary mathematics. Arithmetic
Study and teaching -- Continued
General works, treatises, and textbooks
135 Through 1960
135.5 1961-2000
135.6 2001-
137 Teaching fractions
139 Problems, exercises, examinations
Numeration, number concept, numeration systems
Cf. QA241+ Theory of numbers
Cf. QA297+ Numerical analysis
141 General works, treatises, and textbooks
141.15 Number concept (Elementary)
Cf. BF456.N7 Numbers. Mathematics (Psychology)
141.2 History
Cf. GN476.15 Primitive numeration
Cf. P211+ History of writing
141.3 Juvenile works
141.35 Decimal system
Class here expository and historical works on the decimal system
For tables, arithmetic, and other works with values expressed mainly in the decimal system, see the special class numbers that are provided for particular fields, e.g.
QA101 Arithmetic. For tables, arithmetic, etc., for other special systems, see QA141.4+
141.4 Binary system
Duodecimal system
141.5.A1 Periodicals, societies, congresses, serial publications
141.5.A2-Z General works, treatises, and textbooks
141.6 Octal system
141.8.A-Z Other special systems, A-Z
141.8.Q5 Quinary system
141.8.S4 Sexadecimal system
141.8.S5 Sexagesimal system
141.8.T45 Ternary system
(145) Algebra and arithmetic
see QA101+
Algebra
150 Periodicals, societies, congresses, serial publications
151 History
Textbooks
Elementary
152 Through 1970
152.2 1971-2000
152.3 2001-
Advanced
Algebra
Textbooks
Advanced -- Continued
154
  Through 1970
154.2
  1971-2000
154.3
  2001-
154.8
  Early works to 1800
155
  General works and treatises
    Including higher algebra
155.15
  Juvenile works
155.2
  Addresses, essays, lectures
155.5
  Special aspects of the subject as a whole
155.7.A-Z
  Special topics, A-Z
155.7.E4
  Electronic data processing
157
  Problems, exercises, examinations
  Study and teaching. Research
159
  General works
159.2
  Outlines, syllabi, etc.
161.A-Z
  Miscellaneous elementary topics, A-Z
161.B48
  Binomial coefficients
161.B5
  Binomial theorem
161.E95
  Exponents
161.F3
  Factors
    Logarithms see QA59
161.P59
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162
  Abstract algebra
    Cf. QA10.3 Boolean algebra
Combinatorics. Combinatorial analysis
164
  General works
164.5
  Problems, exercises, etc.
164.8
  Enumeration problems. Generating functions
    Cf. QA353.G44 Special functions
164.9
  Identities
165
  Permutations. Combinations. Partitions
    Including magic squares and magic cubes
Graph theory
    Cf. QA612.18 Map-coloring problem
166
  General works
166.14
  Bipartite graphs
166.145
  Cayley graphs
166.15
  Directed graphs
166.16
  Perfect graphs
166.165
  Quantum graphs
166.17
  Random graphs
166.175
  Fuzzy graphs
166.18
  Hamiltonian graph theory
166.185
  Intersection graph theory
Algebra
Combinatorics. Combinatorial analysis
Graph theory -- Continued
166.19 Eulerian graph theory
166.195 Topological graph theory
166.197 Graph labelings
   Including magic labelings
166.2 Trees
166.22 Paths and cycles
166.23 Hypergraphs
166.24 Reconstruction
166.242 Representations of graphs
166.243 Graph connectivity
166.245 Graph algorithms
166.247 Graph coloring
Design and configurations
166.25 General works
166.3 Block designs
166.4 Hadamard matrices
166.6 Matroids. Greedoids
166.7 Packing and covering
166.75 Polyominoes
166.8 Tessellation and tiling
   Combinatorial geometry
167 General works
167.2 Finite geometries
169 Homological algebra
   Including functors, categories
(171) Group theory
   see QA174+
Ordered sets
171.48 General works
171.485 Partially ordered sets
171.49 Semilattices
171.5 Lattice theory
   Cf. QD921+ Crystal lattices
Ordered algebraic structures
172 General works
172.4 Ordered groups
Algebra -- Continued

Group theory
- Cf. QA172.4 Ordered groups
- Cf. QA385+ Continuous groups
- Cf. QA387 Topological groups. Lie groups
- Cf. QA613.7 Topological transformation groups
- Cf. QA614.97 Pseudogroups and deformations of structures
- Cf. QC174.17.G7 Quantum theory
- Cf. QD455.3.G75 Physical chemistry

174 Periodicals, societies, congresses, serial publications
174.2 General works
174.5 Juvenile works
174.6 Study and teaching, Research
174.62.A-Z Special topics, A-Z
174.62.C65 Computer-assisted instruction
174.7.A-Z Special topics, A-Z
174.7.D36 Data processing
174.7.S96 Symmetry
175 Permutation groups
176 Representations of groups
177 Finite groups
177.4 Formal groups
178 Infinite groups
179 Linear algebraic groups
180 Abelian groups
181 Groupoids
181.5 Quasigroups
182 Semigroups
182.5 Combinatorial group theory
183 Geometric group theory

Linear and multilinear algebra. Matrices
- Cf. QA243 Bilinear forms
- General works, treatises, and textbooks
184 To 2000
184.2 2001-
184.5 Problems, exercises, examinations
185.A-Z Special topics, A-Z
185.C65 Computer-assisted instruction
185.D37 Data processing
186 Vector spaces
187 Linear dependence
188 Matrices
191 Determinants
192 Elimination
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Linear and multilinear algebra. Matrices
Matrices -- Continued
193    Eigenvalues and eigenvectors
195    Proximity matrices
196    Quaternions
196.5  Random matrices
196.7  Sylvester equations
197    Triangularization
199    Clifford algebras
199.5  Multilinear algebra. Tensor products
Vector and tensor algebra
    Cf. QA433 Vector and tensor analysis
200    General works
201    Invariants
205    Exterior algebra. Ausdehnungslehre
Theory of equations
211    General works, treatises, and textbooks
212    Roots. Symmetric functions
    Cf. QA119 Elementary mathematics
214    General resolution of equations
    Including simultaneous equations
215    Cubic, quadratic, biquadratic, and other particular equations
218    Numerical solutions
219    Graphic algebra
Approximation theory
    Cf. QA297+ Numerical analysis
221    General works
223    Radial basis functions
224    Spline theory
Number theory
241    General works, treatises, and textbooks
241.5  Geometry of numbers
241.7  Probabilistic number theory
242    Divisibility. Linear congruences. Factorization. Quadratic residues. Diophantine analysis
Arithmetical algebraic geometry
242.5  General works
242.6  Arakelov theory
243    Forms
    Including quadratic, bilinear forms
244    Higher congruences, residues. Fermat's theorem
245    Cyclotomy. Application of functions to arithmetic
246    Distribution of primes. Special numerical functions, etc.
246.5  Sequences of integers
    Exponential and character sums
Algebra
   Number theory
      Exponential and character sums -- Continued
246.7   General works
246.8.A-Z   Special sums, A-Z
246.8.G38   Gaussian
246.8.K58   Kloosterman
246.8.T75   Trigonometric
   Algebraic fields. Algebraic numbers
247   General works
   Modular fields. Finite fields
247.3   General works
247.35   Modular arithmetic
247.4   Differential and difference algebra
247.45   Division algebras
247.5   Transcendental numbers. Irrational numbers
   Foundations of arithmetic. Set theory. Transfinite numbers
248   General works
248.3   Elementary textbooks
248.5   Fuzzy sets
   Recursive functions. Recursive arithmetic see QA9.6+
251   Universal algebra
      Cf. QA184+ Linear and multilinear algebra
251.3    Commutative rings and algebras
251.35   Group rings
251.38   Local rings
251.4    Noncommutative rings and algebras
251.5    Associative rings and algebras
   Nonassociative rings and algebras
252   General works
252.3    Lie algebras. Lie superalgebras
      Cf. QA387 Lie groups
252.5    Jordan algebras
255    Complex numbers
(263)    Matrices
   see QA188+
      Machine theory. Abstract machines. Abstract automata
         Cf. QA9.6+ Recursive functions
         Cf. QA75.5+ Electronic computers
         Cf. QA402.3+ Control theory
267   General works, treatises, and textbooks
267.3   Formal languages
         Cf. P98+ Language data processing
267.5.A-Z   Special types of machines, A-Z
267.5.C45   Cellular automata
267.5.F89   Fuzzy automata
267.5.P7   Probabilistic automata
Algebra
  Machine theory. Abstract machines. Abstract automata
  Special types of machines, A-Z -- Continued
267.5.S4  Sequential machines
267.5.T45  Temporal automata
267.7  Computational complexity. Kolmogorov complexity
268  Coding theory
268.5  Switching theory
    Cf. QA10.3 Boolean algebra
    Cf. TK7868.S9 Switching circuits
Game theory
269  General works
    Cf. T57.92 Industrial engineering
270  Games of strategy
271  Games of chance
272  Differential games
272.4  Cooperative games
272.5  Noncooperative games
Probabilities
    Cf. T57.3+ Industrial engineering
    Cf. TA340 Engineering mathematics
273.A1  Periodicals, societies, congresses, serial publications
273.A3  Dictionaries and encyclopedias
273.A35  Philosophy
273.A4  History
273.A5-Z  General works, treatises, and textbooks
273.15  Popular works
273.16  Juvenile works
273.18  Addresses, essays, lectures
273.19.A-Z  Special topics, A-Z
273.19.E4  Electronic data processing
Study and teaching. Research
273.2  General works
273.25  Problems, exercises, examinations
273.26  Computer-assisted instruction
273.27  Programmed instruction
273.3  Handbooks, tables, formulas, etc.
273.4  Axioms and foundations
273.43  Probability theory on algebraic and topological structures
273.45  Combinatorial probabilities
273.5  Geometric probability. Stochastic geometry. Random sets
273.6  Distributions. Characteristic functions
273.67  Limit theorems
Stochastic processes
    Cf. T57.33 Renewal theory
    Cf. T57.35+ Renewal theory
    Cf. T57.9 Queuing theory
Probabilities
Stochastic processes -- Continued

274.A1  Periodicals, societies, congresses, serial publications
274.A5-Z General works, treatises, and textbooks
274.12  Problems, exercises, etc.
274.13  Axioms and foundations

Stochastic analysis
274.2  General works
274.22  Stochastic integrals
274.223 Stochastic inequalities
274.225 Stochastic sequences
274.23  Stochastic differential equations
274.25  Stochastic partial differential equations
274.27  Stochastic integral equations
274.28  Random operators
274.29  White noise theory
274.3  Stationary processes
274.4  Gaussian processes
274.42  Point processes
274.45  Random fields
274.46  Random measures
274.5  Martingales. Semimartingales
274.6  Learning models
Markov processes. Markov chains
274.7  General works
274.73  Random walks
274.75  Diffusion processes. Brownian motion processes
Cf. QC183 Constitution and properties of matter and anti-matter
274.755 Jump processes
274.76  Branching processes
274.8  Queuing theory
274.9  Self-similar processes
275  Theory of errors. Least squares
Mathematical statistics
  Including statistical inference and fundamental concepts of statistics
  For special applications of statistics, see the field of application,
e.g. HD1421 Agricultural statistics; LB2846 Educational
  statistics; TA340 Statistical methods in engineering
276.A1  Periodicals, societies, congresses, serial publications
276.A12 Collected works (nonserial)
276.A2-Z General works
276.12  Elementary texts
  Including descriptive statistics
276.13  Juvenile works
276.14  Dictionaries and encyclopedias
Mathematical statistics -- Continued

276.15  History
276.156  Biography
276.157.A-Z  Collective
276.16  Addresses, essays, lectures
276.17  Statistics as a profession. Vocational guidance
276.18  Study and teaching. Research
276.19  General works
276.2  Problems, exercises, examinations
276.22  Computer-assisted instruction
276.23  Geometrical models
276.25  Handbooks, tables, formulas, etc.
276.3  Including tables of random numbers
276.4  Graphic methods
276.45.A-Z  Class here works on the use of data processing and computers
276.45.M53  in mathematical statistics in general
276.45.M56  For the application of statistical data processing and statistical
276.45.R3  analysis programs in special fields see the field, e. g.
276.45.S27  HF5415.125, Marketing; T57.5, Industrial engineering
276.45.S28  276.45.S83  Statistica
276.5  Fuzzy statistics
276.6  Sampling theory and methods
276.7  Sampling distribution
276.74  Tolerance regions. Confidence intervals
276.8  Estimation theory
276.9  Including measurement uncertainty
277  Testing of hypotheses
277.3  Minimum message length. Minimum description length
277.5  General works
277.5  Chi-square test
278  Observed confidence levels
278.2  Multivariate analysis
278.3  General works
278.4  Regression analysis. Correlation analysis
278.4  Path analysis. Structural equation modeling
278.4  Paired and multiple comparisons
Mathematical statistics
  Multivariate analysis -- Continued
278.5  Factor analysis. Principal components analysis.
       Correspondence analysis
278.55 Cluster analysis
278.6  Latent structure analysis
278.65 Discriminant analysis
278.7  Order statistics
278.75 Ranking and selection
278.8  Nonparametric methods
       Analysis of variance and covariance. Analysis of means.
       Experimental design
279  General works
279.2  Prediction analysis
279.4  General works
279.5  Bayesian statistics
279.6  Fuzzy decision making
279.7  Multistage decision procedures. Sequential analysis
280  Time series analysis
281  Interpolation. Extrapolation
  Cf. QA47+ Mathematical tables
  Cf. QA221+ Approximation theory
  Cf. QA297+ Numerical analysis
292  Sequences
  Cf. QA246.5 Sequences of integers
295  Series
       Including infinite products and other infinite processes
Numerical analysis
  Cf. QA221+ Approximation theory
297  General works, treatises, and textbooks
297.3  Problems, exercises, etc.
297.5  Numerical approximation
       For numerical solution to differential equations, including initial value problems and boundary value problems
       see QA370+
  Cf. QA71+ Instruments and machines
  Cf. QA90 Graphic methods. Nomography
  Cf. QA218 Numerical solutions of algebraic equations
  Cf. QA275 Least squares
  Cf. QA281 Interpolation. Extrapolation
297.55 Relaxation methods
297.6  Smoothing. Curve fitting
297.65 Rounding
297.7  Roundoff errors
Numerical analysis -- Continued

297.75  Interval analysis
297.8   Iterative methods
298     Numerical simulation. Monte Carlo method
         Cf. T57.62+ Industrial engineering
299     Numerical differentiation
        Numerical integration
299.3   General works
299.4.A-Z Special formulas, A-Z
299.4.C83 Cubature formulas
299.4.G3 Gaussian quadrature formulas

Analysis
   Including calculus, functional analysis, functions, differential
equations
299.6   Periodicals, societies, congresses, serial publications

Foundations
299.8   General works
299.82  Nonstandard analysis
300     General works, treatises, and textbooks
300.5   Addresses, essays, lectures
301     Problems, exercises, examinations
302     Early works through 1800

Calculus
   Cf. QA431 Calculus of differences
   General works, treatises, and textbooks
303     Through 2000
303.2   2001-
303.3   Study and teaching. Research
303.5.A-Z Special topics, A-Z
303.5.C65 Computer-assisted instruction
303.5.D37 Data processing

Differential calculus
   General works
304     Problems, exercises, examinations
305     Miscellaneous special topics

Integral calculus
308     General works
309     Problems, exercises, examinations
310     Tables of integrals
311     Miscellaneous special topics
        Measure and integration
           Including Lebesgue integrals
312     General works
312.5   Fuzzy measure theory
313     Ergodic theory
         Cf. QA329.2 Linear operators
         Cf. QA611.5 Topology
Analysis
Calculus -- Continued

314 Fractional calculus
Calculus of variations
Cf. QA402.3+ Control theory

315 General works

316 Miscellaneous special topics

Functional analysis

319 Periodicals, societies, congresses, serial publications
320 General works
321 Addresses, essays, lectures
321.5 Nonlinear functional analysis
322 Topological linear spaces
322.2 Normed linear spaces. Banach spaces
322.4 Inner product spaces. Hilbert spaces
322.5 Indefinite inner product spaces
323 Function spaces
324 Theory of distributions
325 Measures, integration, derivatives
326 Topological algebras. Banach algebras

Operator theory

329 General works
329.2 Linear operators
Differential operators
329.4 General works
329.42 Partial differential operators
329.5 Narrow operators
329.6 Integral operators
329.7 Pseudodifferential operators
Nonlinear operators
329.8 General works
329.9 Fixed point theory
Cf. QA612.24 Fixed points and coincidences

Theory of functions

331 General works, treatises, and advanced textbooks
331.3 Elementary textbooks
331.5 Functions of real variables
331.7 Functions of complex variables
Riemann surfaces
Including multiform, uniform functions

333 General works
335 Fuchsian groups
337 Teichmüller spaces
341 Algebraic functions
342 Logarithmic, circular, and exponential functions
343 Elliptic functions. Elliptic integrals. Modular functions
### Analysis

**Theory of functions -- Continued**

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### Differential equations

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381
Differential forms and invariants
Cf. QA614.46 Pfaffian systems

Continuous groups (of transformations). Infinitesimal transformations

385
General works

387
Topological groups. Lie groups
Cf. QA613.7 Topological transformation groups
Cf. QA613.8 Hopf algebras
Cf. QA614.97 Pseudogroups and deformations of structures

Analytical methods used in the solution of physical problems
Including mathematical physics (mathematical theory only)
Cf. QC19.2+ Mathematical physics
Cf. TA329+ Engineering mathematics and engineering analysis

401
General works, treatises, and textbooks

System analysis
Cf. T57.6+ Industrial engineering
Cf. TA168 Systems engineering

402
General works

402.2
Decomposition method
Control theory (General and linear)
Cf. TJ212+ Automatic control

402.3
General works

402.35
Nonlinear control theory

402.37
Stochastic control theory

Mathematical optimization. Programming
Cf. T57.7+ Industrial engineering

402.5
General works

402.6
Transportation problems
Including assignment and location problems

Harmonic analysis (General)
Including abstract harmonic analysis

403
General works

403.3
Wavelets

403.5
General works

404
Fourier series

404.5
Orthogonal series. Orthogonal functions and polynomials
Potential theory. Pluripotential theory
Cf. QA825+ Analytic mechanics

404.7
General works

405
Harmonic functions

406
Laplace and Legendre functions (Spherical harmonics)

408
Bessel functions (Cylindrical harmonics)

409
Lamé functions (Ellipsoidal harmonics)
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411 Toroidal and other harmonics
425 Dirichlet's problem and analogous problems
427 Nonlinear theories. Nonlinearity
431 Difference equations and functional equations. Integral equations. Calculus of differences
432 Operational calculus. Laplace transformation
433 Vector and tensor analysis. Spinor analysis. Scalar field theory

Geometry
Cf. QA681 Foundations of geometry
440 Periodicals, societies, congresses, serial publications
441 Dictionaries and encyclopedias
442 Philosophy
443 Collected works (nonserial)
443.5 History
444 Early works through 1800
445 General works, treatises, and textbooks
445.5 Juvenile works
446 Addresses, essays, lectures
447 Special aspects of the subject as a whole
448.A-Z Special topics, A-Z
448.D38 Data processing

Elementary geometry
451 Euclid's Elements for use in schools
   For commentaries, Greek texts, and translations see QA31
453 Other textbooks (Plane and solid)
455 General works
457 Plane
459 Solid
459 Problems, exercises, examinations
460.A-Z Special propositions, A-Z
460.P8 Pythagorean theorem

Study and teaching. Research
461 General works, treatises, and textbooks
   Special teaching methods and aids
462 General works
462.2.A-Z Special types, A-Z
462.2.C65 Computer-assisted instruction
462.2.G34 Games
463 Laboratory manuals
464 Practical geometry. Geometrical drawing
   Cf. QA497 Higher geometrical drawing (Plane)
   Cf. QA501+ Descriptive geometry
Geometry

Elementary geometry -- Continued

465 Measurement
Famous problems

466 General works
Circle squaring

468 Trisection of the angle
Duplication of the cube

471 Projective geometry
Cf. QA554 Projective methods (Analytic geometry)

Modern geometry. Inversions

473 General works

474 Plane

475 Solid

477 Affine geometry

Special topics in plane geometry

481 Axioms. Postulates. Logic
Cf. QA681 Foundations of geometry

482 Straight lines, angles, triangles, etc.

483 Curves. Ovals

484 Circle

485 Conics

491 Special topics in solid geometry
Including Rubik's Cube, Rubik's Revenge, Rubik's Snake, etc.

497 Higher geometrical drawing (Plane)

Descriptive geometry
Cf. T351+ Mechanical drawing

501 General works, treatises, and textbooks

501.5 Problems, exercises, examinations

Parallel projection

502 General works
Orthogonal projection on two planes

503 General works

505 Isometric projection

507 Oblique projection

Central projection

511 General works

515 Perspective
Class here geometrical works only
Cf. NA2710 Architecture
Cf. NC748+ Drawing
Cf. T369 Mechanical drawing

519 Shades and shadows
Class here geometrical works only
Cf. NC755 Drawing

520 Spherical projection
Cf. GA110+ Map projection
Geometry
  Descriptive geometry -- Continued
    521  Miscellaneous special topics
    529  Geometry and trigonometry (combined)
  Trigonometry
    531  General works, treatises, and textbooks
    533  Plane
    535  Spherical
    537  Problems, exercises, examinations
    538  Miscellaneous special topics
  Analytic geometry
    551  General works, treatises, and textbooks
    551.5  Data processing
    552  Plane. Conic sections
    553  Solid
    554  Projective methods
    555  Problems, exercises, examinations
    556  Coordinates
    556.5  Equipollence
    557  Straight line and circle. Triangle
    559  Conics
    559.5  Curves
    561  Quadric surfaces
    563  Maxima and minima
  Algebraic geometry
    564  General works, treatises, and textbooks
    565  Higher algebraic curves
    566  General works, treatises, and textbooks
    567  Plane curves
    567.2.A-Z  Special curves, A-Z
      567.2.C82  Cubic
      567.2.E44  Elliptic
      567.2.I84  Isothermic
      567.2.M63  Modular
      567.2.O76  Orthogonal
      567.2.Q35  Quartic
      567.2.Q54  Quintic
      567.2.S56  Smooth affine
    567  Higher algebraic surfaces
    571  General works, treatises, and textbooks
    573  Special surfaces
    581  Skew algebraic curves
    582  Tropical geometry
Geometry
Algebraic geometry -- Continued
Transformations, correspondences, and general methods
for algebraic configurations
  Including collineation, correlation
601 General works, treatises, and textbooks
602 Cremona transformations. Quadratic transformations
603 Classification of curves and surfaces. Groups of points
   and curves
605 Applications of transcendental functions to curves and
   surfaces
607 Enumerative geometry. Systems of curves and surfaces
608 Connexes, complexes, congruences. Line geometry
   For algebraic configurations in hyperspace see
   QA691+
609 Conformal geometry
Topology
611.A1 Periodicals, societies, congresses, serial publications
611.A3 History
611.A34-Z General works, treatises, and textbooks
611.13 Juvenile works
611.15 Addresses, essays, lectures
611.17 Study and teaching. Research
   General works
611.19 Problems, exercises, examinations
611.2 Fuzzy topology
611.21 Imbeddings
611.23 Compactifications. Compact spaces
611.234 Realcompactness. Realcompactification. Realcompact
   spaces
611.24 Proximity spaces
611.25 Uniform spaces. Quasi-uniform spaces
611.28 Metric spaces
611.29 Isometries, contractions, expansions
611.3 Other miscellaneous topological spaces
   For linear topological spaces see QA322
611.35 CW complexes
611.5 Topological dynamics
   Including those special aspects relating to ergodic theory
   Cf. QA614.8+ Differentiable dynamical systems
611.7 Fixed point theorems
   Cf. QA329.9 Nonlinear operators
Algebraic topology. Combinatorial topology
   Cf. QA166+ Graph theory
612 General works
   Low-dimensional topology
   Cf. QA613.2 Manifolds and cell complexes
Geometry
  Topology

  Algebraic topology. Combinatorial topology
  Low-dimensional topology -- Continued

  612.14    General works
  612.18    Map-coloring problem
  612.19    Four-color problem
  612.2     General works
  612.23    Braid theory
  612.24    Fixed points and coincidences
             Cf. QA329.9 Fixed point theory

  Homology and cohomology theories
  Cf. QA169 Homological algebra

  612.3     General works
  612.32    Intersection homology theory
  612.33    K-theory. KK-theory
  612.36    Sheaves
  612.5     Retracts
             Fiber spaces. Fiber bundles. Fiberings

  612.6     General works
  612.63    Vector bundles

  Homotopy theory

  612.7     General works
  612.72    Homotopy equivalences
  612.76    Loop spaces
  612.77    H-spaces
  612.78    Homotopy groups
  612.782   Steenrod algebra
  612.79    Obstruction theory
  612.8     Spectral sequences

  Manifolds and cell complexes
  Including distance geometry

  613      General works
  613.2    Topological manifolds
  613.4    PL-topology

  Differential topology

  613.6      General works
  613.618    Characteristic classes
  613.619    Vector fields
  613.62    Foliations
  613.64    Differentiable mappings
  613.65    Diffeomorphisms
  613.658   Surgery. Handlebodies
  613.659   Symplectic and contact topology
  613.66    Cobordism
Geometry

Topology

Manifolds and cell complexes -- Continued

613.7  Topological transformation groups
  Cf. QA387 Topological groups

613.8  Hopf algebras
  Cf. QA387 Topological groups

Global analysis. Analysis on manifolds

614  General works

614.3  General works

614.4  Jets

614.42  Stratified sets

614.44  Supermanifolds

614.46  Pfaffian systems. Pfaffian problem

Calculus on manifolds

614.5  General works

614.58  Differentiable mappings and singularities. Catastrophes

614.7  Critical point theory

614.73  Harmonic maps

Differentiable dynamical systems
  Cf. QA611.5 Topological dynamics
  Cf. QA871 Analytic mechanicals

614.8  General works

614.813  Attractors

614.82  Flows

614.83  Hamiltonian systems

614.833  Nonholonomic dynamical systems

614.835  Random dynamical systems

614.84  Shadowing systems

614.85  Symbolic dynamics

614.86  Fractals. Fractal analysis

Partial differential equations and differential operators on
manifolds

614.9  General works

614.92  Index theorems

614.95  Spectral geometry

614.97  Pseudogroups and deformations of structures
  Cf. QA387 Lie groups

Infinitesimal geometry

615  General works, treatises, and textbooks

Of curves

621  General works

623  Kinematic geometry. Roulettes

624  Curvature

626  Rectification and quadrature

628  Transcendental curves
Geometry

Infinitesimal geometry -- Continued

Of surfaces

631 General works
634 Curvature
636 Areas and volumes
638 Transcendental surfaces
639 Differential geometry of congruences, etc.

Convex geometry

639.5 General works
640 Convex sets and geometric inequalities
640.3 Convex polyhedra. Convex polytopes
640.5 Convexity spaces

Discrete geometry

640.7 General works
640.72 Aperiodic tilings
640.77 Rigidity

Differential geometry

Including general theory of surfaces

641 General works, treatises, and textbooks
642 Problems, exercises, examinations
643 Curves on surfaces
644 Minimal surfaces. Nets of plane curves
645 Surfaces determined by relations of curvature, etc.
646 Conformal and other representations of surfaces

Cf. QA110+ Map projection
Cf. QA360 Mapping of regions, conformal representation

648 Deformation of surfaces
648.5 Web geometry
649 Miscellaneous special topics
660 Projective differential geometry
665 Symplectic geometry. Contact geometry

Global differential geometry

Cf. QA614+ Global analysis. Analysis on manifolds

670 General works
671 Global Riemannian geometry
671.5 Spin geometry
672 Integral geometry
681 Foundations of geometry
685 Non-Euclidean geometry
689 Generalized spaces

Hyperspace

691 General works
699 Popular works. Fiction

Including Flatland, fourth dimension
Analytic mechanics
   Class here mathematical works only
   Cf. QC120+ Descriptive and experimental mechanics
   Cf. TA349+ Applied mechanics

801       Periodicals, societies, congresses, serial publications
801.2     Collected works (nonserial)
801.5     Dictionaries and encyclopedias
801.6     Philosophy
802       History
   Including general history of mechanics
803       Newton's Principia and commentaries
804       Early works through 1800
805       General works, treatises, and advanced textbooks
807       Elementary textbooks
807.5     Addresses, essays, lectures
808       Special aspects of the subject as a whole
808.2     Continuum mechanics
   Cf. QC155.7 Fluid dynamics
808.5     Relativistic mechanics
808.8     Study and teaching
809       Problems, exercises, examinations
810       Handbooks, tables, formulas, etc.

Statics
   Cf. TA351 Engineering
821       General works, treatises, and textbooks
823       Composition and resolution of forces at a point
   Attraction and potential
   Cf. QA404.7+ Potential theory
   Cf. QC570+ Electrostatics
825       General works, treatises, and textbooks
827       Ellipsoids and other special systems
831       Rigid bodies. Forces and couples in three dimensions.
   Equilibrium
835       Chains and flexible surfaces. Catenary
839       Geometry of masses. Center of mass. Moments of inertia

Kinematics
   Including composition of motions and displacements, relative
   motions, moving axes, theory of screws
   Cf. QA623 Roulettes
   Cf. QC231 Kinematics (Physics)
   Cf. TJ175 Kinematics of machinery
841       General works
842       Relativistic kinematics

Dynamics
   Cf. QC133+ Descriptive and experimental mechanics
   Cf. UF820+ Motion of projectiles (Ballistics)
843       Periodicals, societies, congresses, serial publications
Analytic mechanics
Dynamics -- Continued

845  General works, treatises, and advanced textbooks
846  Elementary textbooks

Dynamics of a particle
  Cf. QB349+ Celestial mechanics
  Cf. QC174.17.P7 Problem of many bodies (Quantum theory)

851  General works, treatises, and textbooks
852  Special aspects of the subject as a whole
  Including resistance, friction
853  Orbital and constrained motion
855  Motion of surfaces

Rigid dynamics
861  General works, treatises, and textbooks
862 A-Z  Special systems, A-Z
862.G9  Gyroscope
862.P4  Pendulum
862.P5  Pistons
862.P76  Projectiles
862.T7  Top
863  Miscellaneous special topics

Theory of vibrations. Oscillations
  Cf. QA935+ Vibrations of elastic bodies

865  General works
867  Harmonic motion
867.5  Nonlinear oscillations
871  General methods in dynamics
  Including Lagrange's equations, Hamilton's equations, least action, stability of systems

Mechanics of deformable bodies
Fluid mechanics
  Cf. QC120+ Descriptive and experimental mechanics
  Cf. TA357+ Applied fluid mechanics

901  General works, treatises, and textbooks
903  Problems, exercises, examinations
Hydrostatics

905  General works, treatises, and textbooks
907  Miscellaneous special topics
  Including floating bodies, etc.
  Cf. VM761+ Stability of ships

Fluid dynamics. Hydrodynamics
  Cf. TC160+ Hydraulics

911  General works, treatises, and textbooks
912  Relativistic fluid dynamics
913  Kinematics of fluids. Irrotational motions
Analytic mechanics
Mechanics of deformable bodies
Fluid mechanics
Fluid dynamics. Hydrodynamics -- Continued
920 Magnetohydrodynamics. Magnetofluid dynamics
   Cf. QC717+ Ion flow dynamics
   Cf. QC718.5.M36 Plasma physics
   Cf. QC809.M3 Cosmic physics
922 Two-phase flow. Multiphase flow
922.5 Uniform flow
924 Jets and cavities
925 Rotating fluids. Vortex motion
   Cf. QB410 Rotating masses of gravitating fluid
925.5 Burbles
927 Wave propagation in fluids. Theory of wave motion
   Cf. QC223 Mathematical theory of sound
929 Viscous fluids
929.5 Non-Newtonian fluids
   Cf. QC189.5+ Rheology
930 Gas dynamics. Aerodynamics
   Cf. QC120+ Descriptive and experimental mechanics
   Cf. TL570+ Aeronautics
Elasticity. Plasticity
   Cf. QC191 Special properties of matter
   Cf. TA418+ Mechanical properties of materials
931 General works, treatises, and textbooks
932 Micropolar elasticity
933 Thermoelasticity
   Cf. TA418.24+ Temperature dependent properties of materials
934 Torsion
Vibrations of elastic bodies. Wave propagation in elastic solids
935 General works
937 Impact
939 Surface waves
### Astronomy

1. Periodicals, societies, congresses, serial publications
   Museums. Exhibitions
2. A1
   General works
2. A2-Z
   By region or country, A-Z
   Subarrange each country by Table Q5
3. Collected works (nonserial)
   Observations
   Including serial collections issued by individual observatories.
   For annual reports see QB82.A+
4. A-Z
   By name of issuing observatory, A-Z
4. 9.A-Z
   By region or country, A-Z
6. Star catalogs
   Including zone observations, etc.
   For catalogs of double stars, multiple stars, binary systems
   see QB821
   For catalogs of variable stars see QB835
Ephemerides
   For ephemerides of individual planets, see QB611 QB621 etc.
   For ephemerides of planets collectively see QB603.E6
7. Early through 1800
   1801-
8. A-Z
   Nautical and air (or aeronautical) almanacs. By country, A-Z
9. Other yearbooks
11. Early through 1800
12. 1801-
14. Dictionaries and encyclopedias
   Communication in astronomy
   14.2
   General works
   14.25
   Information services
   14.3
   Computer network resources
   Including the Internet
14.5
   Philosophy
   History
15. General works
   Ancient
16. General works
   Cf. CE21+ Ancient chronology
   Cf. GN799.A8 Astronomy (Prehistoric archaeology)
17. Chinese
18. Hindu
19. Assyro-Babylonian, etc.
   Jewish see QB34
20. Egyptian
21. Greek
History
   Ancient -- Continued
  22
     Roman
  22.2
     Celtic
  22.3
     Etruscan
Medieval
   Including Arabic astronomy
  23
     General works
Astrology
  25
     History
        Cf. BF1671+ Occult sciences
  26
     Medieval works
        Cf. BF1680+ Occult sciences
        Modern astrology see BF1651+
Modern
  28
     General works
  29
     Renaissance through 1700
  31
     18th century
  32
     19th-20th centuries
  33.A-Z
     By region or country, A-Z
  34
     Jewish astronomy
        Maori astronomy see DU423.A85
  34.5
     Women in astronomy. Women astronomers
Biography
  35
     Collective
  36.A-Z
     Individual, A-Z
        e.g.
        36.B8
           Brahe
        36.C8
           Copernicus
        36.G2
           Galileo
Directories
  40
     Early works through 1700
        Cf. GA6 Cosmography
        Cf. VK551 Navigation (Early works)
General works, treatises, and advanced textbooks
   Cf. QB500 Descriptive astronomy
  42
     1701-1800
  43
     1801-1969
  43.2
     1970-2000
  43.3
     2001-
Popular works
  44
     Through 1969
  44.2
     1970-2000
  44.3
     2001-
Elementary textbooks
  45
     To 2000
  45.2
     2001-
46    Juvenile works
        Cf. QB63 Stargazers' guides
47    Special aspects of the subject as a whole
51    Addresses, essays, lectures
51.3.A-Z    Special topics, A-Z
51.3.E43    Electronic data processing
51.3.I45    Imaging systems
51.3.L53    Light pollution
51.3.M38    Mathematics
        Statistical methods see QB149
51.5    Astronomy as a profession. Vocational guidance
52    Miscellany and curiosa
54    Extraterrestrial life
        Cf. CB156 Terrestrial, evidence of interplanetary voyages
(55)    Astronomical myths, legends, and superstitions
        see GR625
61       Study and teaching. Research
62       General works
62.5     Outlines, syllabi
62.7     Problems, exercises, examinations
63       Laboratory manuals
64       Stargazers' guides
65       Atlases and charts
66       Astronomical globes
        Cf. GA12 Manual for globes
67       Miscellaneous models
68       Pictorial works and atlases
       Planetariums
        Including orreries
70       General works
71.A-Z    By region or country, A-Z
        Under each country:
        .x       General works
        .x2A-.x2Z  Individual planetariums. By city, A-Z
Observatories
        Cf. QB479.A2+ Radio observatories
        Cf. QB500.267+ Orbiting astronomical observatories
81       General works
Observatories -- Continued

82. A-Z
By region or country, A-Z

Under each country:

.x General works
.x2A-.x2Z Individual observatories. By place, A-Z

Including description, history, annual reports, individual named telescopes, etc.

84
Observatory buildings
Including domes, piers, rising floors, chairs

Astronomical instruments
Including description, theory, adjustment

84.5
Periodicals, societies, congresses, serial publications

Biography of instrument makers

84.7
Collective

84.75. A-Z
Individual, A-Z

85
Early. Astrolabes, etc.
Including descriptions of early observatories

Modern

85.8
History

86
General works, treatises, and textbooks

86.4
Catalogs

Telescopes. Objectives. Mirrors
Including homemade telescopes, optics, accessories
For individual named telescopes in observatories see QB 82. A+

Cf. QB 479.2 Radio telescopes
Cf. QB 500.268 Hubble Space Telescope

88
General works

90
Large astronomical telescopes

97
Heliostats. Coelostats

101
Meridian instruments
Including transit circle, zenith telescope, visual and photographic

103
Extra-meridian instruments
Including altazimuth, almucantar, transit out of meridian, vertical circle

105
Portable instruments
Including transit, solar compass
Cf. VK 583 Sextant

107
Clocks. Chronometers. Chronographs
For use of chronograph in ballistics see UF 830. C 4

111
Eyepieces

113
Micrometers

115
Levels. Artificial horizons. Illumination, etc.
Astronomical instruments
   Modern -- Continued
117       Optical interferometers
Astronomical photography
121       General works
121.5     Equipment and supplies
125       Television in astronomy
126       Video astronomy
   Electronics in astronomy
127       General works
   Equipment and supplies
127.2     General works
127.4     Charge coupled devices
135       Astronomical photometry
   Astronomical spectroscopy see QB465
135.5     Aeronautics in astronomy
   Including balloons, etc.
136       Space astronomy
   Including astronautics in astronomy
139       Telegraphic codes for transmission of astronomical data
Practical and spherical astronomy
   Cf. QB66 Use of globes
   Cf. VK551+ Nautical astronomy
140       Periodicals, societies, congresses, serial publications
143       Dictionaries and encyclopedias
144       Early works through 1800
145       General works, treatises, and textbooks
147       Celestial sphere and coordinates
149       Statistical astronomy
   Correction and reduction of observations
151       General works, treatises, and textbooks
153       Personal equation
   Involving apparatus for its determination
154       Errors of adjustment, etc.
   Reduction to center of earth
      Refraction
155       Theory and determination of constant
156       Tables
159       Parallax
   Correction for movement of earth and equinoxes
      Including determination of constants by observation
161       General works, treatises, and textbooks
163       Aberration
      Cf. QC671 Electromagnetic theory
165       Precession and nutation
167       Annual parallax
168       Star reduction (from mean to apparent place)
 Practical and spherical astronomy -- Continued
169       Position of pole
171       Determination of the ecliptic
         Prediction of eclipses, occultations and transits
175       General works
185       Miscellaneous phenomena at occultations and transits
 Geodetic astronomy
         Including determination of geographical positions
201       General works, treatises, and textbooks
 Observations
         Cf. QB296.A1+ Observations (Geodesy)
205.A1     Periodicals, societies, congresses, serial publications
205.A2     General works, treatises, and textbooks
205.A3-Z   By region or country, A-Z
         e.g.
         Mexico
205.M6     General works
205.M7A-.M7Z   Local, A-Z
         United States
205.U4-.U5   General works
205.U6A-.U6Z   By region or state, A-Z
205.U7A-.U7Z   By city, A-Z
207       Azimuth. Determination of meridian
 Time
         For historical chronology, calendar, etc. see CE1+
         Cf. BD638 Cosmology
         Cf. BF468 Psychology
         Cf. GN476.3 Anthropology
         Cf. QC173.59.T5 Time dilatation
209       General works
209.5      Juvenile works
 Time service
210.A1     General works, treatises, and textbooks
210.A3-Z   By region or country, A-Z
211       Sidereal and solar, and their conversion
213       Methods of finding the time
214       Instruments for measuring the time
         Including hourglasses
         Cf. TS540+ Watches and clocks
215       Sundials and dialing
216       Sunrise and sunset
217       Equation of time
221       Time signals, etc.
223       Systems and standards
224       Prime meridians
 Longitude and latitude
224.5      General works, treatises, and textbooks
Practical and spherical astronomy
Longitude and latitude -- Continued

224.7.A-Z          By region or country, A-Z
Longitude
225               Methods of determination
228               Tables and ephemerides
Observations
229               General works, treatises, and textbooks
229.5.A-Z          By region or country, A-Z
Latitude
231               Methods of determination
233               Tables and ephemerides
Observations
235               General works, treatises, and textbooks
235.5.A-Z          By region or country, A-Z
237               Variation of latitude
Geodesy
275       Periodicals, societies, congresses, serial publications
279       Dictionaries and encyclopedias
280       Collected works (nonserial)
280.5       History
281               General works, treatises, and textbooks
281.5       Geodesy as a profession. Vocational guidance
283               Mathematical theory of the figure of the earth
                Cf. QA827 Attractions of ellipsoids
                Cf. QB331 Isostasy
                Cf. QB410 Rotating masses of fluid
285       Popular works
286       Juvenile works
287               Addresses, essays, lectures
291               Special arc measures
Observations
296.A1          General works, treatises, and textbooks
296.A3-Z          By region or country, A-Z
297               Data processing
Biography
297.9               Collective
                e.g.
298.H4            Hassler
298.R8            Rylke
Study and teaching. Research
299               General works
299.5.A-Z          By region or country, A-Z
Geodetic surveying
                Cf. TA501+ Plane surveying
                Cf. VK588+ Hydrographic surveying
Geodesy
Geodetic surveying -- Continued

301          General works

303          Base measuring
           Including apparatus
           Cf. QC101 Standards of length

311          Triangulation
           Cf. TA583 Plane surveying

321          Theory and computation. Tables, etc.
           Cf. QA275 Least squares

325          Traverse surveying
           Cf. TA585 Plane surveying

Instruments
           Cf. TA562+ Surveying instruments, methods, etc.
328.A1          General works, treatises, and textbooks
328.A2-Z          Special, A-Z
328.G4          Geodimeter
328.P7          Prismatic astrolabe
328.T4          Tellurometer

Gravity determinations
330          Periodicals, societies, congresses, serial publications

331          Theory and description of apparatus. Isostasy
           Cf. QA862.P4 Dynamics of pendulum

Observations
           Including length of seconds, pendulum, etc.
334          General works, treatises, and textbooks
335.A-Z          By region or country, A-Z
336          Data processing

Gravity anomalies
337          General works, treatises, and textbooks
337.5.A-Z          By region or country, A-Z
338          Plumbline deflections
339          Disturbances
           Including lunar, solar, earth movements

341          Constant of gravitation. Mean density of the earth

343          Satellite geodesy. Artificial satellites in geodesy
           Cf. TL798.G4 Geodetic satellites

Theoretical astronomy and celestial mechanics
           Cf. TL1050+ Astrodynamics
349          Periodicals, societies, congresses, serial publications
350          Collected works
350.5          History
351          General works, treatises, and textbooks
353          Addresses, essays, lectures
Calculation of orbits. Orbit determination
           For orbits of individual planets see QB371+
           For planetary orbits in general see QB603.M6
Theoretical astronomy and celestial mechanics
Calculation of orbits. Orbit determination

- **355** General works, treatises, and textbooks
- **355.3** Kepler's laws
- **355.5** Kepler's equation
- **357** Comets (General)
  - For orbits of individual comets see QB723.A+

Perturbations

Planetary theory

- **361** General works, treatises, and textbooks
- **361.9** Special aspects of the subject as a whole
- **362.A-Z** Special topics, A-Z
- **362.F47** Few-body problem
- **362.M3** Many body problem
- **362.T5** Three body problem
- **362.T9** Two body problem
- **369** Tables and observations
  - Individual planets
    - Including tables and orbits
    - **371** Mercury
    - **372** Venus
    - **374** Sun's apparent motion
    - **376** Mars
    - Asteroids. Minor planets
      - **377** General works, treatises, and textbooks
        - Individual
          - **378.A-Z** By name, A-Z
          - **379** By number, if unnamed
          - **384** Jupiter and Saturn
          - **387** Uranus
          - **388** Neptune
          - **389** Ultra-Neptunian planets
  - Lunar theory
    - **391** General works, treatises, and textbooks
    - **391.9** Special aspects of the subject as a whole
    - **392.A-Z** Special topics, A-Z
    - **392.C3** Capture of the moon by the earth
    - **392.I5** Inequalities of the moon's motion
    - **392.O3** Occultations of stars
    - **397** Observations
    - **399** Tables, charts, diagrams, etc.
  - Satellites
    - Including individual planetary satellites
      - Cf. QB603.R55 Planetary rings
      - Cf. TL796+ Artificial satellites
    - **401** General works, treatises, and textbooks
    - **401.5** Juvenile works
Theoretical astronomy and celestial mechanics
  Perturbations
  Satellites -- Continued
  403  Satellites of Mars
  404  Satellites of Jupiter
  405  Satellites and ring system of Saturn
  406  Satellites of Uranus
  407  Satellites and ring system of Neptune
  408  Satellites of Pluto
  410  Figures of equilibrium of rotating masses of fluid
  Theory of tides
    Cf. GC300+ Oceanography
    Cf. QC809.E2 Earth tides
    Cf. VK600+ Tidetables
  414  Early works through 1800
    General works, treatises, and textbooks
  415  1801-1969
    415.2  1970-
  416  Special aspects of the subject as a whole
  418  Dictionaries and encyclopedias
  419  Miscellany and curiosia
    Instruments see GC306
  421  Theory of double star systems
  Cosmochemistry
    General works
  450  General works
    450.5  Cosmic abundance
  Astrogeology
    Cf. QB592 Lunar geology
    Cf. QB603.G46 Planetary geology
  Biography
    454  Collective
  455  General works
    455.2  Astromineralogy
    455.5  Extraterrestrial seismology
      Cf. QB539.I5 Helioseismology
      Cf. QB812 Astroseismology
  456  Multiring basins
  Astrophysics (General)
    460  Periodicals, societies, congresses, serial publications
    460.15  Collected works (nonserial)
  Biography
    460.7  Collective
    460.72.A-Z  Individual, A-Z
  461  General works, treatises, and textbooks
    461.3  Popular works
    461.5  Addresses, essays, lectures
Astrophysics (General) -- Continued

462.2  Data processing
462.3  Mathematics
462.5  Radio astrophysics
462.6  Molecular astrophysics
462.65  Relativistic astrophysics
462.7  General works
462.72  Double layers
462.8  Cosmic magnetic fields
        Plasma astrophysics
463  Nuclear astrophysics
        Periodicals, societies, congresses, serial publications
463.15  Collected works (nonserial)
464  General works, treatises, and textbooks
        Particle acceleration
464.2  Neutrino astrophysics
464.3  Nucleosynthesis
464.4  Radiative capture
465  Astronomical spectroscopy
        Cf. QB551 Spectroscopy of sun and eclipses
        Cf. QB870+ Stellar spectroscopy
466.A-Z  Other topics, A-Z
466.A25  Accretion
466.C45  Chaotic behavior in systems
466.C64  Collisions
466.C65  Compact objects
466.C66  Controlled fusion
466.C67  Cosmochronology
466.D58  Disks
466.E65  Equations of state
466.F58  Fluid dynamics
466.G38  Gas dynamics
466.J46  Jets
466.M37  Mass loss
466.P67  Positronium

Non-optical methods of astronomy

468  General works
        Infrared astronomy
470.A1  Periodicals, societies, congresses, serial publications
470.A5-Z  General works, treatises, and textbooks

Gamma ray astronomy

471.A1  Periodicals, societies, congresses, serial publications
471.A5-Z  General works, treatises, and textbooks
471.7.A-Z  Special topics, A-Z
471.7.B85  Bursts

X-ray astronomy

472.A1  Periodicals, societies, congresses, serial publications
Non-optical methods of astronomy
X-ray astronomy -- Continued

472.A5-Z General works, treatises, and textbooks
472.5 Juvenile works
473 Addresses, essays, lectures
474 Ultraviolet astronomy

Radio astronomy
Cf. QB860 Quasars

475.A1 Periodicals, societies, congresses, serial publications
475.A15 Collected works (nonserial)
475.A2 Dictionaries and encyclopedias

History

475.A25 General works
475.A28A-.A28Z By region or country, A-Z
476.5 General works, treatises, and advanced textbooks
477 Popular works
478 Juvenile works
478.5 Addresses, essays, lectures

Observatories

479.A2 General works
479.A5-Z By region or country, A-Z

Under each country:

.x General works
.x2A-.x2Z Individual observatories. By name, A-Z

479.2 Radio telescopes
479.3 Radio interferometers
479.4 Millimeter astronomy

Radio sources

479.5 General works
479.55.A-Z Individual radio sources or types of radio sources, A-Z
479.55.C93 Cygnus A
479.55.H68 Hot spots
479.55.M18 M87 (Galaxy)
479.55.R34 Radio Galaxies
479.55.S88 Superluminal

480 Radar in astronomy

Descriptive astronomy

Periodicals, societies, congresses, serial publications see QB1

General works, treatises, and textbooks see QB42+

Universe. Space. Space sciences
Cf. QB980+ Cosmology
Cf. TL787+ Astronautics. Space travel

495 Periodicals, societies, congresses, serial publications
496 Collected works
497 Dictionaries and encyclopedias
Descriptive astronomy

Universe. Space. Space sciences -- Continued

497.2
Communication in space sciences

History

498
General works

498.2.A-Z
By region or country, A-Z

500
General works, treatises, and advanced textbooks

500.22
Juvenile works

500.24
Addresses, essays, lectures

500.25
Special aspects of the subject as a whole

500.26.A-Z
Special topics, A-Z

500.26.D38
Data processing

500.26.I58
International cooperation

500.26.S67
Space optics

Study and teaching. Research

Including exploration of outer space

500.262
General works

500.264
Experiments

500.266.A-Z
By region or country, A-Z

Orbiting astronomical observatories

500.267
General works

500.268
Hubble Space Telescope

500.269
Next Generation Space Telescope

500.28
Northern sky

500.3
Southern sky

Solar system

500.5
Periodicals, societies, congresses, serial publications

501
General works, treatises, and textbooks

501.2
Popular works

501.3
Juvenile works

501.5
Study and teaching. Research

502
Miscellany and curiosa

503
Age of solar system. Origin of solar system

505
Physical conditions

Including atmospheres, resisting medium, etc.

507
Proper motion in space

Solar parallax and related constants

508
General works

Transit of Venus

509
General works, treatises, and textbooks

509.5
1639 transit

511
1761 and 1769 transits

512
1874 transit

513
1882 transit

513.2
2004 transit

515
Transit of Mercury

516
Observations of Mars and asteroids
Descriptive astronomy
Solar system
Solar parallax and related constants -- Continued

518 Other methods

Sun
520 Periodicals, societies, congresses, serial publications
521 General works, treatises, and textbooks
521.4 Popular works
521.5 Juvenile works
521.6 Addresses, essays, lectures
522 Tables, etc.
   Cf. QB374 Perturbations
523 Mass, diameter, rotation, etc.

Solar activity
524 General works
525 Sunspots
   Cf. BF1729.S92 Astrology
526.A-Z Other special topics, A-Z
526.A37 Active regions
526.C9 Cycles
   Energetic particles see QB526.S65
526.F3 Faculae
526.F6 Flares
526.F64 Flocculi, Plages
   Plages see QB526.F64
526.P7 Prominences
526.S65 Solar energetic particles
528 Atmosphere, chromosphere
Corona. Solar wind. Heliosphere
529 General works
529.5 Coronal holes
529.6 Corotating interaction regions
531 Radiation, temperature, etc.
   Cf. QC910.2+ Solar radiation in meteorology
539.A-Z Other special topics, A-Z
539.C6 Composition
539.E4 Electric field
539.E8 Evolution
539.G7 Granulation
   Helioseismology see QB539.I5
539.I5 Interior
   Including helioseismology
539.M23 Magnetic fields
539.N6 Noise storms
539.N8 Nuclear reactions
539.O83 Oscillations
539.P58 Polarimetry
## Descriptive astronomy

- **Solar system**
  - Sun
  - Other special topics, A-Z -- Continued

### Solar eclipses

- Radio effects
- Seismology see QB539.I5
- Size
- Solar neutrinos
- Solar x-rays
- Terrestrial-solar relations
- Miscellany and curiosa

#### Solar eclipses

Including works on solar and lunar eclipses combined

Cf. BL325.E35 Eclipses (Mythology)

### General works, treatises, and textbooks

#### Juvenile works

Through 1799

Class here works on individual solar eclipses occurring through 1799, as well as works discussing collectively eclipses in that time period

1800-

#### Collective

#### Individual

1800-1899

Complete by appending a decimal point and the last two digits of the year of the eclipse to QB543 followed by author number and date of publication, e.g. QB543.98.I53 1899, Indian eclipse, 1898; report of the expeditions, c1899

1900-1999

Complete by appending a decimal point and the last two digits of the year of the eclipse to QB544 followed by author number and date of publication, e.g. QB544.91.R36 1989, Rao Joe. Your guide to the great solar eclipse of 1991, c1989

2000-2099

Complete by appending a decimal point and the last two digits of the year of the eclipse to QB545 followed by author number and date of publication

### Spectroscopy of sun and eclipses

### Lunar eclipses

- Periodicals, societies, congresses, serial publications
- General works, treatises, and textbooks
- Popular works
Descriptive astronomy
Solar system
Moon -- Continued
582
  Juvenile works
582.3
  Study and teaching. Research
582.5
  Exploration
    Cf. TL799.M6 Space flights to the moon
583
  Distance, parallax
585
  Rotation, libration, and shape
588
  Temperature, radiation, brightness, phases
591
  Surface, physical condition, meteorology
592
  Lunar geology. Lunar petrology
    Cf. TN291.35 Lunar mining
595
  Photographs, maps, drawings
Planets. Planetology
  Cf. QB54 Extraterrestrial life
  Cf. QB401+ Satellites
  Cf. QB500.5+ Solar system
  Cf. QB820 Extrasolar planets
  Cf. TL799.A+ Flights to special planets
600
  Periodicals, societies, congresses, serial publications
600.2
  Dictionaries and encyclopedias
  Communication of planetological information
    General works
600.3
    Information services
600.32
    Geographic information systems
600.34
    Computer network resources
      Including the Internet
600.35
    Planetological literature
600.5
    Nomenclature, terminology, names
601
    General works, treatises, and textbooks
601.9
    Popular works
602
    Juvenile works
602.9
    Special aspects of the subject as a whole
602.95
    Data processing
603.A-Z
    Special topics, A-Z
603.A85
      Atmospheres
        Including meteorology
603.C6
      Composition
603.C7
      Cratering
603.C78
      Crust
603.E6
      Ephemerides
603.F5
      Figures
603.G46
      Geology
        Cf. TN291.3+ Space mining
603.I52
      Infrared radiation
603.I53
      Internal structure
Descriptive astronomy
Solar system
Planets. Planetology
   Special topics, A-Z -- Continued
603.I55       Interplanetary medium
               Including interplanetary dust
603.I57       Ionospheres
603.M26       Magnetic fields
603.M3        Mass
               Meteorology see QB603.A85
603.M6        Motion
               Including orbits
               For orbits of individual planets see QB371+
603.O74       Origin
603.R3        Radiation
603.R55       Rings
               Cf. QB405 Ring system of Saturn
               Cf. QB407 Ring system of Neptune
603.S6        Spectroscopy
603.S95       Surfaces
603.V65       Volcanism
604           Tables, etc.
605           Photographs, maps, drawings
605.2         Miscellany and curiosa
               Inferior planets
606           General works
607           Intramercurial planets
               Mercury
611           General works
613.A-Z       Special topics, A-Z
613.G46       Geology
               Transit of Mercury see QB515
               Venus
621           General works
623.A-Z       Special topics, A-Z
623.A86       Atmosphere
623.G46       Geology
623.M48       Meteorology
               Transit of Venus see QB509+
623.V65       Volcanism. Volcanoes
623.W56       Winds
               Earth as a planet. Astronomical geography
               Cf. QE500+ Geology
630           Periodicals, societies, congresses, serial collections
631           General works, treatises, and textbooks
631.2         Popular works
631.4         Juvenile works
Descriptive astronomy
Solar system
Planets. Planetology
Earth as a planet. Astronomical geography -- Continued

632 Origin
633 Rotation
637 Photographs from space
   Seasons
      Cf. GR930 Folklore
637.2 General works, treatises, and textbooks
637.4 Juvenile literature
637.5 Spring
637.6 Summer
637.7 Autumn
637.8 Winter
638 Miscellany and curiosa
638.8 End of the world
Superior planets
   Including other objects beyond Earth
   For their satellites, see QB403+

639 General works
   Mars
641 General works
643.A-Z Special topics, A-Z
643.A86 Atmosphere
643.C55 Climate
643.D87 Dust storms
643.G46 Geology
643.G73 Gravity
643.M48 Meteorology
   Satellites see QB403
643.S42 Seasons
643.V65 Volcanism. Volcanoes
643.W38 Water
643.W56 Wind erosion
Asteroids
651 General works
Outer planets
659 General works
   Jupiter
661 General works
663.A-Z Special topics, A-Z
663.A86 Atmosphere
   Satellites see QB404
Saturn
671 General works
Descriptive astronomy
Solar system
Planets. Planetology
Superior planets
Outer planets
Saturn -- Continued
673.A-Z
Special topics, A-Z
Ring system see QB405
Satellites see QB405
Uranus
681
General works
683.A-Z
Special topics, A-Z
Satellites see QB406
Neptune
691
General works
693.A-Z
Special topics, A-Z
Ring system see QB407
Satellites see QB407
Trans-Neptunian objects
Cf. QB701+ Pluto
694
General works
695
Kuiper Belt
Dwarf planets
698
General works
Pluto
701
General works
703.A-Z
Special topics, A-Z
Satellites see QB408
705
Ceres
Comets
Cf. QB357 Calculation of orbits
717
Periodicals, societies, congresses, serial publications
721
General works, treatises, and textbooks
721.4
Popular works
721.5
Juvenile works
721.6
Addresses, essays, lectures
722
Catalogs
723.A-Z
Periodic comets. By name, A-Z
(723.A7)
Arrest's comet
see QB723.D37
723.B5
Biela comet
723.B7
Brooks comet
723.B8
Brorsen comet (I)
723.C6
Comas Sola comet
723.D37
D'Arrest comet
723.D45
Delavan comet
723.D5
Denning comet
Descriptive astronomy
Solar system
Comets

Periodic comets. By name, A-Z -- Continued

723.E3                Encke comet
723.F2                Faye comet
723.G43                Geddes comet
723.H17                Hale-Bopp comet
723.H2                Halley's comet
723.H7                Holmes comet
723.L6                Lexell comet
723.M67                Morehouse comet
723.S66                Shoemaker-Levy 9 comet
723.T3                Tempel 1 comet
723.T8                Tuttle comet
723.V35                Van Biesbroeck comet
724
Comets before 1700
725
1700-1799

Complete by appending a decimal point and the last two
digits of the year of the appearance of the comet to
QB725 followed by author number and date of
publication

726
1800-1899

Complete by appending a decimal point and the last two
digits of the year of the appearance of the comet to
QB726 followed by author number and date of
publication, e.g. QB726.61.K8, Kreutz, Heinrich,
Untersuchungen über die Bahn des grossen Kometen
von 1861

727
1900-1999

Complete by appending a decimal point and the last two
digits of the year of the appearance of the comet to
QB727 followed by author number and date of
publication

728
2000-2099

Complete by appending a decimal point and the last two
digits of the year of the appearance of the comet to
QB728 followed by author number and date of
publication

729
Distribution of comets
731
Nature and constitution (before the spectroscope)
732
Nature and constitution (modern views)
738
Meteoroids
Meteoroids

740
Periodicals, societies, congresses, serial publications
741
General works, treatises, and textbooks
741.5
Juvenile works
Descriptive astronomy
Solar system
Meteors -- Continued

Methods of observation and geometrical topics
Including radiants, altitude, etc.

Periodic showers

November
August
Orbits
 Streams
Relation between meteors and comets

General works
Other theories of the origin of meteors
Remarkable meteors, fireballs

Meteorites
Including craters
Cf. QE399 Tektites

Periodicals, societies, congresses, serial publications
General works, treatises, and textbooks

Addresses, essays, lectures
By region or country, A-Z
Individual meteorites and craters, A-Z
Allende meteorite
Chinguetti meteorite
Fermo meteorite
Kurinelli meteorite
Meteor Crater (Ariz.)
Orgueil meteorite
Port Orford meteorite
Sikhote-Alin meteorite
Thuathe meteorite
Tunguska meteorite
Vredefort Dome (South Africa)

Meteorite types or classes
Iron meteorites. Siderites
Special, A-Z
Ataxites
Hexahedrites
Octahedrites
Stony meteorites. Aerolites
Special, A-Z
Achondrites
Chondrites
Stony-iron meteorites. Siderolites. Intermediates
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<td>Zodiacal light. Counterglow. Gegenschein</td>
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<td>Spectroscopy of moon, planets, comets, etc.</td>
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<td>Particular stars (not A-Z)</td>
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<td>Atmospheres</td>
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<td>Stellar oscillations. Astroseismology</td>
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Descriptive astronomy
Stars -- Continued
815  Magnitudes. Photometric catalogs
     Cf. QB829 Color of double stars
816  Color
817  Radiation. Bolometry
817.5  Magnetic fields
818  Stellar diameters
818.5  Stellar collisions
     Including stellar mergers
819  Distribution
     Including stellar populations
820  Extrasolar planets
     Double and multiple stars. Binary systems
     Cf. QB421 Theory
     Cf. QB903 Spectroscopy
821  General works, treatises, and textbooks
     Including observations, catalogs
823  Particular stars (not A-Z)
829  Colors of double stars
830  X-ray binaries
Variable stars. Algol systems
     Cf. QB895 Spectroscopy
833  Periodicals, societies, congresses, serial publications
835  General works, treatises, and textbooks
     Including observations, catalogs
835.2  Addresses, essays, lectures
836  Magnitude. Photometric catalogs
837  Particular stars or clusters (not A-Z)
837.5  Cataclysmic variable stars
838  Pulsating stars
841  Temporary or new stars
843.A-Z  Other particular types of stars, A-Z
     A stars
843.A12  Asymptotic giant branch stars
843.A89  Be stars
843.B12  Black holes
843.B25  Blue stragglers
843.B55  Brightest stars
843.B75  Brown dwarfs
843.B77  Cool stars
     Coronae Borealis stars R see QB843.R12
843.D44  Delta Scuti stars
843.D85  Dwarf novae
843.D9  Dwarf stars
843.E2  Early stars
Descriptive astronomy
Stars
Other particular types of stars, A-Z -- Continued
843.F55  Flare stars
843.L85  Luminous blue variables
843.M16  M stars
843.M3   Magnetic stars
843.N12  N stars
843.N4   Neutron stars
843.O12  O stars
843.P42  Peculiar stars
843.P8   Pulsars
843.R12  R Coronae Borealis stars
843.R17  R Scuti stars
843.R4   Red dwarfs
843.R42  Red giants
843.R72  RR Lyrae stars
843.S53  Shell stars
843.S85  Subgiant stars
843.S9   Supergiant stars
843.S94  Supermassive stars
843.S95  Supernovae
843.S96  Symbiotic stars
843.T12  T Tauri stars
843.W5   White dwarfs
843.W6   Wolf-Rayet stars

Clusters and nebulae
Cf. QB891 Spectroscopy
851  General works, treatises, and textbooks
     Including observations, catalogs

Clusters
853  General works
853.5  Globular clusters

Nebulae
855  General works
855.2  Juvenile works
855.5  Planetary nebulae
     Including proto-planetary nebulae
855.55  Gaseous nebulae
     Including Herbig-Haro objects
855.9.C7  Crab Nebula
855.9.H67  Horsehead Nebula
855.9.O75  Orion Nebula

Galaxies
856  Periodicals, societies, congresses, serial publications
857  General works
Descriptive astronomy

Stars

Galaxies -- Continued

857.3
Juvenile works
857.5.A-Z
Special topics, A-Z
857.5.B84
Bulges
Collisions see QB857.5.M47
857.5.D37
Data processing
857.5.E96
Evolution
857.5.E97
Extragalactic distances
857.5.G7
Gravitational lenses
Including microlensing
857.5.H34
Halos
857.5.M34
Magnetic fields
857.5.M47
Mergers. Collisions
857.5.M67
Motion in the line of sight
Radio galaxies see QB479.55.R34
857.5.S87
Surface brightness
Milky Way galaxy
857.7
General works
857.72
Galactic center
858
Dwarf galaxies
Active galaxies
Including active galactic nuclei
858.3
General works
858.35
BL Lacertae objects
858.4
Elliptical galaxies
858.42
Spiral galaxies
858.5.A-Z
Other galaxies. By name, A-Z
858.5.M33
Magellanic Clouds
Clusters of galaxies
858.7
General works
858.8.A-Z
Individual. By name, A-Z
858.8.L63
Local Group
Cf. QB857.7+ Milky Way
858.8.V57
Virgo Cluster
860
Quasars
Stellar spectroscopy
870
Periodicals, societies, congresses, serial collections
871
General works, treatises, and textbooks
873
Instruments and apparatus
875
Chemical and physical constitution
881
Classification of stars
Including classed catalogs
883
Study of special types of spectra
Including the spectra of special stars
891
Nebulae and clusters
Descriptive astronomy

Stars

Stellar spectroscopy -- Continued

895 Variables and new stars
901 Motion in the line of sight. Radial velocities
903 Spectroscopic observations on double stars

Cosmogony. Cosmology

Including nebular hypothesis, meteoritic hypothesis, glacial cosmogony
Cf. BD493+ Speculative philosophy
Cf. QB503 Origin of solar system

980 Periodicals, societies, congresses, serial publications
980.5 Dictionaries and encyclopedias
981 General works, treatises, and textbooks
982 Popular works
983 Juvenile works
985 Addresses, essays, lectures
991.A-Z Special topics, A-Z
991.B54 Big bang theory
991.C64 Cosmic background radiation
  Including cosmic ripples
991.C65 Cosmic rotation
991.C658 Cosmological constants
991.C66 Cosmological distances
991.C87 Curvature cosmology
991.C92 Cyclic universe theory
991.E53 End of the universe
991.E94 Expanding universe
991.G73 Great Attractor
991.I54 Inflationary universe
991.L37 Large scale structure
991.N34 Naked singularities
991.P45 Phase transformations
991.Q36 Quantum cosmology
991.S73 Statistical methods
991.T67 Topological defects
Physics
   Cf. QH505 Biophysics
   Cf. R895+ Medical physics
   Cf. S588.4+ Agricultural physics
1     Periodicals, societies, congresses, serial publications
3     Collected works (nonserial)
5     Dictionaries and encyclopedias
Communication in physics
   5.3     General works
   5.35    Information services
   5.4     Computer network resources
           Including the Internet
   5.45    Physics literature
   5.5     Abstracting and indexing
   5.52    Language. Authorship
Philosophy. Methodology
   For relativity physics see QC173.5+
   For unified field theories see QC173.68+
5.56    Periodicals, societies, congresses, serial publications
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6.4.C57  Consciousness
6.4.C58  Constraints
6.4.C6   Continuity. Continuum
6.4.D46  Determinism
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6.4.D5   Dialectical materialism
6.4.D8   Dualism
6.4.F58  Fluctuations
6.4.I34  Identity (Philosophical concept)
6.4.P37  Paradox
6.4.R42  Reality
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   For mathematical theory without practical applications see
      QA401+
   Cf. QC173.96+ Quantum theory
   Cf. TA329+ Engineering mathematics
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20.7.A37
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20.7.A4
      Algebraic logic
20.7.A5
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         Cf. QA401+ Analytical methods for physical problems
20.7.A85
      Asymptotic theory
20.7.B38
      Bayesian statistical decision theory
20.7.B47
      Bethe-ansatz technique
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20.7.D5  Differential equations
20.7.D516  Differential games
20.7.D52  Differential geometry
  Including noncommutative differential geometry
20.7.D55  Dimensional analysis
20.7.E4  Electronic data processing
20.7.E48  Embedding theorems
20.7.E88  Evolution equations
  Cf. QA377.3 Differential equations
20.7.F56  Finite element method
20.7.F67  Fourier transformations
20.7.F73  Fractals
20.7.F84  Functional analysis
20.7.F85  Functional integration
20.7.F87  Functions, Special
20.7.G44  Geometry
20.7.G55  Global analysis
20.7.G7  Graph theory
20.7.G76  Group theory
  Cf. QC174.17.G7 Group theoretical methods for quantum mechanical problems
20.7.H35  Hamiltonian systems
20.7.H63  Homogeneous spaces
20.7.H65  Homology and cohomology theories
20.7.I33  Idempotents
20.7.I58  Integral equations
20.7.K47  Kernel functions
20.7.K56  Knot polynomials
20.7.L54  Lie algebras. Lie-admissible algebras
20.7.M24  Manifolds
20.7.M27  Mathematical optimization
20.7.M3  Matrix theory
  Cf. QC174.3+ Matrix mechanics
  Cf. QC793.3.M36 Elementary particle physics
20.7.M43  Measure theory
  Cf. QC174.17.M4 Quantum theory
20.7.M53  Microlocal analysis
20.7.M65  Monte Carlo method
20.7.N58  Nonassociative algebras
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20.7.N6  Nonlinear theories
20.7.N86  Numerical analysis
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20.7.P7   Probabilities
20.7.R38  Relational calculus
20.7.R4   Relaxation methods
20.7.R43  Renormalization
20.7.S3   Scattering theory
20.7.S54  Singularities

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20.7.S64  Spectral theory
20.7.S645 Spherical harmonics
20.7.S65  Spinor analysis
20.7.S68  Stability
20.7.S73  Standards
20.7.S8   Stochastic processes

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20.7.T45  Theory of distributions
20.7.T65  Topology
20.7.T73  Transport theory
20.7.V4   Vector analysis
20.7.W38  Wavelets
20.7.W53  WKB approximation
20.7.Z47  Zeta functions

Study and teaching. Research

20.8     General works
20.815.A-Z By region or country, A-Z
20.82    Problems, exercises, examinations
20.85    Handbooks, tables, formulas, etc.

General works, treatises, and advanced textbooks

21       1801-1969
21.3     2001-

Elementary textbooks

23       To 2000
23.2     2001-

24       Pictorial works and atlases
24.5     Popular works
25       Juvenile works
26       Recreations, home experiments, etc.
27       Anecdotes, facetiae, satire, etc.

Addresses, essays, lectures see QC71

28       Special aspects of the subject as a whole
Physics as a profession. Vocational guidance
Study and teaching. Research
  For programmed texts see QC21+
General works
Outlines, syllabi
Problems, exercises, examinations
Experiments
  Cf. QC26 Home experiments
Laboratory manuals
  Elementary
    General works
  Laboratory blanks
Advanced
Physical measurements (General)
  Including theory and methods
  Cf. QC81+ Weights and measures
  Cf. T50 Technical measurement
Juvenile works
Laboratory technique
  United States
    General works
  By region or state, A-Z
    Subarrange each state by Table Q7
Other regions or countries, A-Z
    Subarrange each country by Table Q7
Developing countries
Laboratories
  Cf. QC100.A2+ Standardizing bureaus
  Cf. QC541.A1+ Electric laboratories
General works
By region or country, A-Z
  Subarrange each country by Table Q6
Data processing
Instruments and apparatus (General)
  For instruments of special fields, see the field
  Cf. QC100.5+ Weights and measures
  Cf. QC101+ Instruments for measurement of length, area, weight, etc.
  Cf. QC370.5+ Optical instruments
  Cf. QC875.5+ Meteorological instruments
General works
Juvenile works
Museums. Exhibitions
General works
By region or country, A-Z
  Subarrange each country by Table Q5
61  Handbooks, tables, formulas, etc.
71  Addresses, essays, lectures

Force and energy (General)
   Cf. QC310.15+ Thermodynamics
   Philosophy see QA843+

72  History
73  General works, treatises, and textbooks
73.4  Juvenile works
73.6  Study and teaching, Research
73.8.A-Z  Special topics, A-Z
73.8.C6  Conservation of energy
73.8.C65  Correlation of forces
73.8.E53  Energy transfer
73.8.M4  Mechanical advantage
73.8.W65  Work

75  Miscellany and curiosa
Weights and measures. Units of measurement
   Class here works on the means of expressing quantities of length, area, volume, capacity, and mass (or weight) in terms of standard units. For works on units used in the measurement of other quantities, including velocity, pressure, energy, temperature, see the particular field of application
   Cf. BS680.W4 Weights and measures in the Bible
   Cf. HF5711+ Tables of weights and measures (Business mathematics)
   Cf. QA465 Measurement (Mathematics)
   Cf. QB214 Time measuring instruments
   Cf. QC535+ Electric measurements

81  Periodicals, societies, congresses, serial publications
   For governmental standardizing bureaus, including serial publications issued by them see QC100.A3+

Museums. Exhibitions
81.5.A1  General works
81.5.A2-Z  By region or country, A-Z
   Subarrange each country by Table Q5

82  Dictionaries and encyclopedias

History
83  General works
84  Ancient
85  Medieval
86  Modern

87  Early works through 1800

88  General works, treatises, and advanced textbooks
   Including works with an alphabetical arrangement of countries
89.A-Z  By region or country, A-Z
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90  Elementary textbooks
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  111       General works
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Descriptive and experimental mechanics
  For theoretical and analytical mechanics see QA801+
  Cf. QC71.82+ Force and energy (General)
  Cf. QC176+ Solid state physics
  Cf. TA349+ Applied mechanics
  120       Periodicals, societies, congresses, serial publications
  121       Collected works (nonserial)
  121.6     Dictionaries and encyclopedias
  121.8     Nomenclature, terminology, notation, abbreviations

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  For general history of mechanics see QA802
  122       General works
  122.2.A-Z  By region or country, A-Z
  123       Early works through 1800
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      1970-
  125       1801-1969
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  127       Elementary textbooks
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  127.4     Juvenile works
  127.6     Addresses, essays, lectures

Study and teaching. Research
  128       General works
  129       Problems, exercises, examinations
  129.5     Laboratory manuals
  131       Special aspects of the subject as a whole

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  Cf. QA843+ Analytic mechanics
  133       General works, treatises, and textbooks
  133.5     Juvenile works
  135       Kinematics
  136       Vibrations
    Cf. QA865+ Analytic mechanics (Dynamics)
    Cf. QA935+ Vibrations of elastic bodies
    Cf. QC231 Sound
    Cf. TA355 Engineering
  137       Inertia
    Including Mach's principle

Velocity. Speed
  Cf. QC233 Velocity of sound
  Cf. QC407 Velocity of light
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137.5  General works, treatises, and textbooks
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   Including liquids
   Cf. QA901+ Analytic mechanics
   Cf. TA357+ Applied fluid mechanics
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139  Dictionaries and encyclopedias
140  Nomenclature, terminology, notation, abbreviations
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145.4.E45 Electric properties
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145.4.M27 Magnetic properties
145.4.O6 Optical properties
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145.4.T5 Thermal properties
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Hydrostatics. Floating bodies
   Cf. QC183 Surface tension
   Cf. TC165+ Technical hydraulics
   Cf. TJ836+ Fluid power technology
145.5 Periodicals, societies, congresses, serial publications
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    148.2 General works
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    148.4 Instruments and apparatus
      Including hydrometers, flowmeters
Fluid dynamics. Hydrodynamics
  Cf. QA911+ Analytic mechanics
  Cf. TC171+ Technical hydraulics
  Cf. TJ266+ Turbine engineering
  Cf. TP156.F6 Chemical engineering
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    151.2 Juvenile works
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    152.5 Compressible fluids
  153 Nonhomogeneous fluids
  154 Viscous fluids
    Cf. QA929 Analytic mechanics
    Cf. QC189.5+ Rheology, Non-Newtonian fluids
  155 Flows in porous media
  155.5 Flows in viscous media
  155.7 Flows in continuous media
    Cf. QA808.2 Analytic mechanics
  156 Drops. Splashes
    Cf. QC183 Capillarity
    Cf. TP159.A85 Atomizers
    Quantum and relativistic hydrodynamics see QA912
    Magnetohydrodynamics (Analytic mechanics) see QA920
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  157 Waves
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    Cf. QA925 Analytic mechanics
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   Cf. QD535 Liquefaction of gases
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161.5 Handbooks, tables, formulas, etc.
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163 Compressibility
163.5 Diffusion
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   Including manometers, etc.
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165.5 Thermal properties
Vacuum
   Including vacuum production, etc.
   Cf. TJ940+ Vacuum technology
166 General works
166.5 Ultrahigh vacuum
167 Viscosity
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   Including thermodynamic aspects
   Cf. QA930 Analytic mechanics
   Cf. QC717+ Ion flow dynamics
   Cf. TJ1025+ Mechanical engineering
   Cf. TL570+ Aerodynamics
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168.2 Addresses, essays, lectures
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168.4 General works
168.6 Problems, exercises, etc.
168.7 Technique
168.8 Handbooks, tables, formulas, etc.
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168.85.D46 Detonation waves
168.85.M53 Migration
168.85.R45 Relaxation
168.85.S45 Shock waves
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   Including molecular physics
   Cf. QC770+ Nuclear physics
   Cf. QD450+ Physical chemistry
   Cf. TA401+ Materials of engineering and construction
   170 Periodicals, societies, congresses, serial publications
      General works, treatises, and textbooks
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Constitution of matter and antimatter (General)
   Cf. QC671 Aberration
   Cf. QC793+ Elementary particle physics
   172 Periodicals, societies, congresses, serial publications
   172.2 Collected works (nonserial)
   173 General works, treatises, and textbooks
      173.16 Juvenile works
      173.18 Addresses, essays, lectures
      173.25 Study and teaching. Research
Properties of matter and antimatter (General)
   Cf. QC182+ Special properties of matter and antimatter
   173.28 Periodicals, societies, congresses, serial publications
   173.3 General works, treatises, and textbooks
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         173.4.C74 Critical phenomena
         173.4.E65 Equations of state
         173.4.G53 Glass
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         173.4.I53 Inhomogeneous materials
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173.4.L56       Liquid metals
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173.4.M48       Microclusters
                Including atomic clusters and molecular clusters
                Cf. QC793.3.S8 Nuclear cluster theory

173.4.M5        Microphysics

173.4.M65       Molecular beams
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173.4.M67       Momentum distributions

173.4.M85       Multiple scattering

173.4.O73       Order-disorder models

173.4.P64       Polarizibility

173.4.P65       Polymers
                Class here works on physical properties
                For general works on chemical and physical
                properties see QD380+

173.4.P67       Porous materials

173.4.Q36       Quasicrystals
                Cf. QA926 Crystallography

173.4.R44       Relaxation phenomena

173.4.S94       Surfaces

173.4.T48       Thomas-Fermi theory

Condensed matter physics

173.45         Periodicals, societies, congresses, serial publications

173.452        Directories

173.454        General works, treatises, and advanced textbooks

173.456        Study and teaching. Research


173.457.C64    Computer simulation

173.457.S7     Statistical methods

173.458.A-Z    Special topics, A-Z

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173.458.D43    Defects

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173.458.M33    Magnetic properties

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173.458.S62    Soft condensed matter

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  173.458.S87   Surfaces
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Relativity physics
   Cf. QA808.5 Relativistic mechanics
   Cf. QC175.3+ Kinetic theory of liquids
  173.5   Periodicals, societies, congresses, serial publications
  173.51  Collected works (nonserial)
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  173.57  Popular works
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  173.58  Addresses, essays, lectures
  173.585 Special aspects of the subject as a whole
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  173.59.G44 Geometrodynamics
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   Cf. QA808.2 Continuum mechanics
   Cf. QC174.45+ Quantum field theory
   Cf. QC178 Theories of gravitation
   Cf. QC793.3.F5 Elementary particle physics
  173.68 Periodicals, societies, congresses, serial publications
  173.7   General works, treatises, and textbooks
  173.72  Addresses, essays, lectures
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  173.75.T5 Thermodynamics
  173.75.T85 Twistor theory

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   Cf. QB991.Q36 Cosmology
   Cf. QC446.15+ Quantum optics
  173.96 Periodicals, societies, congresses, serial publications
  173.97 Collected works (nonserial)
  173.975 Dictionaries and encyclopedias
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174          Early works through 1926
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174.12          General works, treatises, and textbooks
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174.17.B45      Bell's theorem
174.17.B6       Bound states
174.17.C45      Chaos
174.17.C6       Commutation relations
174.17.C63      Complementarity
              Constant curvature, Spaces of see QC174.17.S63
174.17.C65      Correspondence principle
174.17.C67      Coulomb potential
              Curvature, Spaces of constant see QC174.17.S63
174.17.D37      Data processing
174.17.D44      Density matrices
174.17.D54      Differential equations, Partial
174.17.E58      Entanglement
174.17.F3       Factorization method
              Few-body problem see QC174.17.P7
174.17.F45      Feynman integrals
174.17.F54      Finite element method
174.17.F86      Functionals
174.17.G46      Geometric quantization
174.17.G5       Gibbs' paradox
174.17.G56      Gleason measures
174.17.G57      Global analysis
174.17.G68      Green's functions
174.17.G7       Group theory
              Cf. QA174+ Algebra
174.17.H3       Hamiltonian operator
174.17.H4       Heisenberg principle
              Cf. QC6.4.D46 Determinism
174.17.H55      Hilbert space
174.17.I58      Integral equations
Atomic physics. Constitution and properties of matter
Quantum theory. Quantum mechanics
Special topics, A-Z -- Continued

174.17.I76 Irreversible processes
   Cf. QC318.I7 Thermodynamics
   Many-body problem see QC174.17.P7

174.17.M33 Markov processes

174.17.M35 Mathematical logic. Quantum logic

174.17.M4 Measure theory. Quantum measure theory

174.17.O63 Operator theory
   Partial differential equations see QC174.17.D54

174.17.P27 Path integrals

174.17.P3 Pauli exclusion principle

174.17.P45 Perturbation

174.17.P68 Probabilities

174.17.P7 Problem of many bodies
   Including few-body problem

174.17.Q29 Quantum Bayesianism
   Quantum computers see QA76.889

174.17.Q33 Quantum interference
   Quantum logic see QC174.17.M35

174.17.Q35 Quantum maps
   Quantum measure theory see QC174.17.M4

174.17.Q38 Quantum teleportation

174.17.Q385 Quantum trajectories

174.17.R32 Racah algebra

174.17.R37 Rate processes

174.17.R46 Renormalization theory

174.17.R65 Rotation groups

174.17.S3 Schrödinger operator

174.17.S32 Schwinger action principle

174.17.S36 Semigroups

174.17.S6 Sommerfeld polynomial method

174.17.S63 Spaces of constant curvature

174.17.S76 Stochastic processes

174.17.S77 Sum rules
   Supergravity see QC174.17.S9

174.17.S78 Superposition

174.17.S9 Symmetry. Invariance
   Including supergravity
   Cf. QC793.3.S9 Elementary particle physics

174.17.T67 Transactional interpretation

174.17.T7 Teleportation see QC174.17.Q38

174.17.V35 Variational principles

174.17.V4 Vector analysis
Atomic physics. Constitution and properties of matter
Quantum theory. Quantum mechanics -- Continued

Wave mechanics
Cf. QC793.3.W3 Elementary particle physics

174.2.A1 Periodicals, societies, congresses, serial publications
174.2.A2 Collected works (nonserial)
174.2.A6-Z General works, treatises, and textbooks
174.22 Addresses, essays, lectures
174.23 Special aspects of the subject as a whole
174.24.G4 Geometrical
174.24.N6 Nonlinear
174.24.N64 Nonrelativistic
174.24.R4 Relativistic
Atomic and molecular orbitals see QD461
174.26.B58 Bivectors
Spinor analysis see QA433
174.26.W28 Wave equations
Including solitons
174.26.W3 Wave functions
Matrix mechanics
Cf. QC793.3.M36 Elementary particle physics

174.3.A1 Periodicals, societies, congresses, serial publications
174.3.A6-Z General works, treatises, and textbooks
174.32 Handbooks, tables, formulas, etc.
174.35.A-Z Special theories, A-Z
174.35.R2 R-matrix theory
174.35.S2 S-matrix theory
Quantum statistics
Cf. QC793.3.S77 Statistical mechanics of elementary particles

174.4.A1 Periodicals, societies, congresses, serial publications
174.4.A2 Collected works (nonserial)
174.4.A6-Z General works, treatises, and textbooks
174.42 Addresses, essays, lectures
174.43 Special aspects of the subject as a whole
Quantum field theory
Cf. QC679+ Quantum electrodynamics
Cf. QC793.3.M36 Matrix theories of elementary particles

174.45.A1 Periodicals, societies, congresses, serial publications
174.45.A2 Collected works (nonserial)
174.45.A6-Z General works, treatises, and textbooks
174.46 Addresses, essays, lectures
174.52.A-Z Special topics, A-Z
Atomic physics. Constitution and properties of matter
Quantum theory. Quantum mechanics
Quantum field theory
Special topics, A-Z -- Continued

174.52.A43 Algebra of currents
Cf. QC793.3.A4 Elementary particle physics
174.52.C66 Conformal invariants
174.52.D43 Degree of freedom
174.52.F8 Functional analysis
174.52.K56 Knot theory
174.52.L6 Lorentz transformations
174.52.O6 Operator theory
174.52.P37 Path integrals
174.52.S32 Scattering
174.52.S94 Symplectic manifolds
174.52.V33 Vacuum
174.52.Y36 Yang-Baxter equation
174.52.Y37 Yang-Mills theory
174.52.Z47 Zero-point field

Statistical physics
Including statistical mechanics and dynamics
Cf. QC311.5 Statistical thermodynamics
Cf. QC793.3.S77 Elementary particle physics

174.7 Periodicals, societies, congresses, serial publications
174.8 General works, treatises, and textbooks
174.82 Addresses, essays, lectures
174.84 Special aspects of the subject as a whole
Study and teaching. Research
174.842 General works
174.844 Problems, exercises, examinations
174.85.A-Z Special topics, A-Z
174.85.E88 Estimation theory
174.85.F47 Fermi liquid theory
174.85.H35 Hamiltonian systems
174.85.I8 Ising model
174.85.L38 Lattice theory
174.85.M43 Mean field theory
174.85.M64 Monte Carlo method
174.85.O6 Open systems
Cf. QC318.O63 Thermodynamics
174.85.P45 Percolation
174.85.P48 Phase space
Phase transformations see QC175.16.P5
174.85.P76 Probabilities
174.85.Q83 Quantum entropy
Cf. QC318.E57 Entropy (Thermodynamics)
174.85.R36 Random fields
Atomic physics. Constitution and properties of matter
Statistical physics
  Special topics, A-Z -- Continued
174.85.R364  Random matrices
174.85.R37   Random walks
174.85.S34   Scaling
174.85.S46   Set theory
174.85.W85   Wulff construction
174.86.A-Z   Special types of statistical mechanics, A-Z
174.86.C6    Classical
174.86.N65   Nonequilibrium
174.9        Kinetic theory of matter
  Kinetic theory of gases
    Cf. QC702.5 Ionized gases
175.A1       Periodicals, societies, congresses, serial publications
175.A6-Z     General works, treatises, and textbooks
175.13       Special aspects of the subject as a whole
175.15       Study and teaching, Research
175.16.A-Z   Special topics, A-Z
175.16.B6    Boltzmann’s distribution law
175.16.B65   Bose-Einstein gas
175.16.C6    Condensed gases
175.16.E6    Electron gas
                Joule-Thomson effect see QC318.J6
175.16.M6    Molecules
175.16.P5    Phase transformations
175.16.R3    Rarefied gases
  Transport theory
    Cf. QC176.8.E9 Excitons
    Cf. QC793.3.T7 Transport theory of elementary particles
    Cf. QC809.E6 Energy budget (Geophysics)
175.2.A1     Periodicals, societies, congresses, serial publications
175.2.A6-Z   General works, treatises, and textbooks
175.23       Addresses, essays, lectures
175.25.A-Z   Special topics, A-Z
175.25.C6    Collision integrals
175.25.I6    Invariant imbedding
175.25.L5    Linear transport theory
175.25.R3    Radiative transfer
175.25.S4    Second sound
175.25.S8    Stochastic processes
  Kinetic theory of liquids
175.3        General works, treatises, and textbooks
175.32       Addresses, essays, lectures
175.35       Special aspects of the subject as a whole
175.36.A-Z   Special topics, A-Z

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Atomic physics. Constitution and properties of matter
Statistical physics
    Kinetic theory of liquids
    Special topics, A-Z -- Continued
175.36.R4
    Relativity
Superfluid physics
    Cf. QC611.9+ Superconductivity
175.4.A1
    Periodicals, societies, congresses, serial publications
175.4.A6-Z
    General works, treatises, and textbooks
175.45
    Addresses, essays, lectures
175.47.A-Z
    Special topics, A-Z
175.47.B65
    Bose-Einstein condensation
Solids. Solid state physics
    Class here works on solids, including works that also deal in
t    part with crystals.
    For works that deal exclusively with crystals see QD901+
    Cf. QD478 Solid state chemistry
    Cf. TN689+ Physical metallurgy
176.A1
    Periodicals, societies, congresses, serial publications
176.A3
    Dictionaries and encyclopedias
176.A6-Z
    General works, treatises, and textbooks
176.2
    Addresses, essays, lectures
176.3
    Juvenile works
Study and teaching. Research
    General works
176.5
    Problems, exercises, examinations
176.52.A-Z
    By region or country, A-Z
176.8.A-Z
    Special topics, A-Z
176.8.A3
    Acoustic properties
        Cf. TA418.84 Engineering materials
176.8.A35
    Adhesion
176.8.A44
    Amorphous substances
176.8.A54
    Anderson model
176.8.A6
    Annealing
176.8.C45
    Channeling
176.8.C6
    Compressibility
176.8.D44
    Defects
176.8.D5
    Diffusion
    Elastic properties see QC191
176.8.E35
    Electric properties
176.8.E4
    Electronic states
176.8.E9
    Excitons
176.8.E94
    Expansion
176.8.F4
    Fermi surface
176.8.F74
    Free electron theory of metals
        Hole burning, Optical see QC176.8.O58
176.8.H66
    Hopping conduction
Atomic physics. Constitution and properties of matter
Solids. Solid state physics
Special topics, A-Z -- Continued

176.8.L3  Lattice dynamics
           Cf. QD921+ Crystal structure
176.8.M3  Magnetic properties
176.8.M34 Magnetron sputtering
176.8.M46 Mesoscopic phenomena
176.8.M48 Metal-insulator transitions
176.8.M5  Micromechanics
176.8.N35 Nanostructures
Noncrystalline solids see QC176.8.A44
176.8.N65 Nonmetallic solids
176.8.O58 Optical hole burning
176.8.O6  Optical properties
176.8.P45 Phase transformations
176.8.P5  Phonons
176.8.P54 Plasma effects
176.8.P55 Plasmons
176.8.P6  Polaritons
176.8.P62 Polaronic
176.8.Q35 Quantum wells
176.8.R3  Radiation effects
176.8.R35 Rare gas solids
176.8.S68 Spin glasses
176.8.S72 Sputtering
Sputtering, Magnetron see QC176.8.M34
176.8.S8  Surface properties
           Cf. QD506+ Surface chemistry
           Cf. TA418.7+ Surface technology
176.8.T4  Thermal properties
           Cf. QC295 Specific heat
           Cf. TA418.52+ Engineering materials
176.8.T8  Tunneling
176.8.V34 Valence fluctuations
176.8.W3  Wave propagation
Thin films
176.82   Periodicals, societies, congresses, serial publications
176.825  Collected works (nonserial)
176.83   General works, treatises, and textbooks
176.835  Addresses, essays, lectures
176.84.A-Z Special topics, A-Z
176.84.D54 Diffusion
176.84.E5 Electric properties
176.84.M3 Magnetic properties
176.84.O7 Optical properties
176.84.R3 Radiation effects
Atomic physics. Constitution and properties of matter
Solids. Solid state physics
Thin films
   Special topics, A-Z -- Continued
176.84.S49    Size effects
176.84.S93    Surface properties
176.9.A-Z     Special thin film substances and types, A-Z
176.9.M84     Multilayered
176.9.N64     Nonmetallic
176.9.O73     Organic
176.9.P64     Polycrystalline
176.9.R37     Rare earths
176.95.A-Z    Special substances, A-Z
176.95.I25    Ice
                Cf. QC926.3+ Snow
177           Theories of ether
178           Theories of gravitation
                Including antigravity, quantum gravity
179           Gravitational waves. Gravitational radiation
Special properties of matter and antimatter
182           Absorption and adsorption
                Cf. QC162 Adsorption and absorption of gases
183           Capillarity
                Including surface tension, cohesion
                Cf. QA274.75 Brownian motion processes
                Cf. QC156 Drops. Splashes
                Cf. QD506+ Surface chemistry
184           Brownian motion
185           Diffusion. Transpiration
                Cf. QA274.75 Diffusion processes
                Cf. QC145.4.D5 Diffusion in liquids
                Cf. QC163.5 Diffusion in gases
                Cf. QC176.8.D5 Diffusion in solids
Osmosis (Cytology) see QH615
Osmosis (Physical chemistry) see QD543
Osmosis (Plant physiology) see QK871
Viscosity
                Cf. QC145.4.V5 Viscosity of liquids
                Cf. QC167 Viscosity of gases
189.A1        Periodicals, societies, congresses, serial publications
189.A2        Collected works (nonserial)
189.A6-Z      General works, treatises, and textbooks
189.2         Handbooks, tables, formulas, etc.
Atomic physics. Constitution and properties of matter
Special properties of matter and antimatter -- Continued

Rheology
  Including non-Newtonian liquids
  Cf. QA931+ Plasticity (Analytic mechanics)
  Cf. TA418.14+ Plastic properties of materials
  Cf. TP156.R45 Chemical engineering

189.5.A1  Periodicals, societies, congresses, serial publications
189.5.A2  Collected works (nonserial)
189.5.A6-Z General works, treatises, and textbooks
189.55.A-Z Special topics, A-Z
189.55.S58 Slit die rheometers
189.8     Thixotropy
191       Elastic properties of solids
  Cf. QA931+ Analytic mechanics
  Cf. QD933 Crystallography
  Cf. TA418+ Mechanical properties of materials

191.5.A-Z Particular solids and special topics, A-Z
191.5.M48 Metals
191.5.S67 Springback
192       Thermal properties
193       Deformation
197       Friction, etc.
  Cf. TA418.72 Friction properties of materials

Sound, light, and heat as a whole

220       General works
220.5     Acoustooptics

Acoustics. Sound
  Cf. ML3805 Music acoustics
  Cf. NA2800 Architectural acoustics
  Cf. QC176.8.A3 Acoustical properties of solids
  Cf. QP460+ Bioacoustics
  Cf. TA365+ Acoustics in engineering
  Cf. TA418.84 Acoustical properties of materials
  Cf. TH1725 Soundproof construction
  Cf. TK5981+ Electroacoustics

221       Periodicals, societies, congresses, serial publications
221.5     Dictionaries and encyclopedias
221.7     History
222       Early works through 1800
223       Mathematical theory
  General works, treatises, and advanced textbooks
  1801-1969
  1970-
225.15    1970-
225.2     Elementary textbooks
225.3     Popular works
225.5     Juvenile works
Acoustics. Sound -- Continued

225.6       Addresses, essays, lectures
225.7       Special aspects of the subject as a whole
      Study and teaching. Research
226          General works
226.6       Experiments
227          Laboratory manuals
228          Laboratories
228.A1      General works
228.A3-Z    By region or country, A-Z
      Subarrange each country by Table Q6
228.2      Technique
228.3      Instruments and apparatus
228.8      Handbooks, tables, formulas, etc.
229          Miscellany and curiosa
      Special topics
231      Kinematics of vibrations and wave motion
233      Propagation of sound
      Including velocity, reflection, transmission
      Vibrations
235      Gases in tubes, etc. Resonance
241      Strings, rods, membranes, plates, tuning forks
      Underwater acoustics
      Cf. TK5103.52 Acoustical telecommunication systems
242      Periodicals, societies, congresses, serial publications
242.2      General works, treatises, and textbooks
242.25     Addresses, essays, lectures
242.4      Instruments and apparatus
      Cf. TK5987 Hydrophone design and construction
242.5.A-Z    Special topics, A-Z
242.5.O23    Ocean tomography
      Sound waves
      Cf. TD894 Noise measurement
242.8      Periodicals, societies, congresses, serial publications
243          General works, treatises, and textbooks
243.2          Juvenile works
243.3.A-Z     Special topics, A-Z
243.3.A25     Acoustic streaming
243.3.A4     Amplitude
243.3.D3     Damping
243.3.D53    Diffraction
243.3.E5     Energy
243.3.P7     Pressure of sound
243.3.R3     Radiation pressure
243.3.R4     Reverberation. Reverberation time
      Cf. NA2800 Architectural acoustics
243.3.S3     Scattering
Acoustics. Sound
   Special topics
      Sound waves
      Special topics, A-Z -- Continued
      Transmission see QC233

243.5
   Infrasonics
244
   Ultrasonics
      Cf. QC480.2 Sonoluminescence
      Cf. TA417.4 Ultrasonic testing

244.2
   Nonlinear acoustics
244.5
   Acoustic holography
246
   Analysis of sounds. By phonograph, etc.
      For acoustic phonetics see P221.5

Heat
   For thermal properties of solids see QC176.8.T4
   Cf. QC220+ Sound, light, and heat as a whole

251
   Periodicals, societies, congresses, serial publications
251.4
   Collected works (nonserial)
251.6
   Dictionaries and encyclopedias
252
   History and philosophy
252.2
   Nomenclature, terminology, notation, abbreviations
253
   Early works through 1800
   General works, treatises, and advanced textbooks
      1801-1969
      1970-
254
   Elementary textbooks
256
   Juvenile works
257
   Addresses, essays, lectures

Study and teaching. Research
   For programmed texts see QC254+

261
   General works
261.5
   Problems, exercises, examinations
263
   Experiments
263.5
   Laboratory manuals
265
   Technique
266
   Handbooks, tables, formulas, etc.
267
   Miscellany and curiosa

Thermometers. Thermometry
   Including temperature measurements and temperature
   measuring instruments
   Cf. GC177 Oceanographic instruments

270
   Periodicals, societies, congresses, serial publications
270.5
   Collected works (nonserial)
270.7
   Dictionaries and encyclopedias
271
   General works, treatises, and textbooks
271.4
   Juvenile works
271.5
   Addresses, essays, lectures
Heat

Thermometers. Thermometry -- Continued

271.6 Special aspects of the subject as a whole
271.8.A-Z Special aspects of instrumentation, A-Z
271.8.A95 Automatic control
271.8.C3 Calibration
271.8.T4 Testing

Special types of thermometers

272 Mercury and other liquids
273 Air and gases
274 Electrical. Resistance thermometers. Thermocouples
275.A-Z Other, A-Z

High temperatures

276 General works
277 Pyrometers and pyrometry

Low temperatures

- Cf. QD536 Thermochemistry
- Cf. TP480+ Low temperature engineering

277.9 Periodicals, societies, congresses, serial publications
278 General works, treatises, and textbooks
278.2 Juvenile works
278.4 Addresses, essays, lectures
278.6 Instruments and apparatus

High pressure

280 Periodicals, societies, congresses, serial collections
280.2 General works, treatises, and textbooks
280.4 Study and teaching. Research
280.6 Technique
280.8 Instruments and apparatus

Relations between pressure, volume, and temperature

281 General works
281.5.A-Z Special topics, A-Z
281.5.C6 Compressibility
281.5.E9 Expansion

(282) Solids
  
  see QC176+

(284) Liquids
  
  see QC138+

(286) Gases
  
  see QC161+

Calorimeters and calorimetry

- Cf. QD510+ Thermochemistry
- Cf. TP315+ Fuel (Chemical technology)

290 Periodicals, societies, congresses, serial publications
291 General works, treatises, and textbooks
292 Addresses, essays, lectures
293.A-Z Special types of calorimeters, A-Z
Heat

Calorimeters and calorimetry

Special types of calorimeters, A-Z -- Continued

293.A3  Adiabatic
293.F5  Fluid
293.F8  Fuel
293.G3  Gas
293.M5  Microcalorimeter
293.R3  Radiation
293.V3  Vacuum
295  Specific heat of solids and liquids
297  Specific heat of gases and vapors

Change of state

301  General works, treatises, and textbooks
303  Fusion and solidification. Heat of fusion
    Heat of vaporization
    Cf. QC915.5+ Meteorology
    Cf. QD533 Vapor densities
    Cf. QD535 Liquefaction of gases
309  Vaporization of solids. Sublimation
310  Heat of formation, solution, wetting, etc.
    Cf. QD516 Thermochemistry

Thermodynamics

Cf. QC718.5.T5 Plasma physics
Cf. QD610+ Chemical thermodynamics
Cf. TJ255+ Heat engines. Engineering thermodynamics
Cf. TN689+ Metallurgical thermodynamics

310.15  Periodicals, societies, congresses, serial publications
310.2  Collected works (nonserial)
310.3  Dictionaries and encyclopedias
310.5  Nomenclature, terminology, notation, abbreviations
311  General works, treatises, and advanced textbooks
311.15  Elementary textbooks
311.19  Addresses, essays, lectures
311.2  Special aspects of the subject as a whole
311  Study and teaching. Research
311.25  General works
311.28  Problems, exercises, examinations
311.29  Data processing
311.3  Handbooks, tables, formulas, etc.
311.5  Special types of thermodynamics
    Statistical
311.7  Relativistic
312  Mechanical equivalent of heat
### Heat

**Thermodynamics -- Continued**

- **318.A-Z**  
  Other special topics, A-Z

- **318.E55**  
  Enthalpy

- **318.E57**  
  Entropy
  
  - Cf. QC174.85.Q83 Quantum entropy
  
  Equilibrium thermodynamics see QC318.T47

- **318.E57**  
  Force and energy see QC71.82+

- **318.E57**  
  Gases see QC167.5+

- **318.I7**  
  Irreversible processes
  
  - Including nonequilibrium thermodynamics
  
  Cf. QC174.17.I76 Quantum theory

- **318.J6**  
  Joule-Thomson effect

- **318.M3**  
  Low temperatures see QC277.9+

- **318.M35**  
  Mass transfer

- **318.M35**  
  Maxwell's demon

- **318.O63**  
  Nonequilibrium thermodynamics see QC318.I7

- **318.P6**  
  Open systems

- **318.T47**  
  Planck radiation law

- **318.T47**  
  Thermodynamic equilibrium

- **318.T5**  
  Thermodynamic potentials

- **319**  
  Miscellany and curiosa

### Heat transfer

- **319.8**  
  Periodicals, societies, congresses, serial publications

- **319.9**  
  Collected works (nonserial)

- **320**  
  General works, treatises, and textbooks

- **320.14**  
  Juvenile works

- **320.16**  
  Addresses, essays, lectures

- **320.2**  
  Special aspects of the subject as a whole

- **320.22.A-Z**  
  Special topics, A-Z

- **320.22.E4**  
  Electromechanical analogies

- **320.22.E43**  
  Electronic data processing

- **320.22.F5**  
  Film boiling

- **320.22.F56**  
  Finite element method

### Study and teaching. Research

- **320.3**  
  General works

- **320.34**  
  Problems, exercises, examinations

- **320.36**  
  Experiments

- **320.38**  
  Instruments and apparatus

- **320.4**  
  Handbooks, tables, formulas, etc.

### Conduction

- **320.8**  
  Periodicals, societies, congresses, serial publications

- **321**  
  General works, treatises, and textbooks

- **321.3**  
  Juvenile works

- **321.5**  
  Addresses, essays, lectures

- **321.6**  
  Special aspects of the subject as a whole

- **321.7.A-Z**  
  Special topics, A-Z
Heat

Heat transfer

Conduction

Special topics, A-Z -- Continued

321.7.E4 Electromechanical analogies
321.7.T55 Thermal diffusivity
323 Experiments

Convection

326 Cf. TH7435+ Heating of buildings
Periodicals, societies, congresses, serial publications
327 General works, treatises, and textbooks
327.4 Handbooks, manuals, etc.
328 Addresses, essays, lectures
330 Free convection
330.2 Bénard cells

Radiation and absorption. Laws of cooling

331 General works

Instruments

338 General works, treatises, and textbooks
338.5.A-Z Special, A-Z
338.5.B6 Bolometers
338.5.P95 Pyroelectric detectors
338.5.R3 Radiometers
338.5.R33 Radiomicrometers
Thermopiles see QC274

Optics. Light

Cf. QC220+ Sound, light, and heat as a whole
Cf. QC494+ Color
Cf. QP474+ Physiological optics
Cf. TA1501+ Applied optics. Lasers

350 Periodicals, societies, congresses, serial publications
351 Collected works (nonserial)
351.2 Dictionaries and encyclopedias
351.5 Nomenclature, terminology, notation, abbreviations
352 History

Biography

352.4 Collective
352.5.A-Z Individual, A-Z
353 Early works through 1800
General works, treatises, and advanced textbooks
355 1801-1969
355.2 1970-2000
355.3 2001-
358 Elementary textbooks
358.5 Popular works
360 Juvenile works
361 Addresses, essays, lectures
Optics. Light -- Continued

362  Pictorial works and atlases

Study and teaching. Research

363  General works

363.2  Outlines, syllabi

363.4  Problems, exercises, examinations

365  Experiments

366  Laboratory manuals

Optical measurements

367  General works

367.3.A-Z  Special topics, A-Z

367.3.D46  Densitometry

367.3.I58  Interferometry

367.3.L37  Laser interferometry

367.3.P37  Particle dynamics analysis

367.3.P65  Polarimetry

367.3.S64  Speckle metrology

368  Optical constants

369  Handbooks, tables, formulas, etc.

369.2  Miscellany and curiosities

370  Information theory in optics

Optical instruments and apparatus (General)

Cf. QC385+ Lens and mirror systems
Cf. QC787.O6 Nuclear fission, atomic energy, and radioactivity instruments
Cf. TS510+ Optical instrument manufacture

370.5  Periodicals, societies, congresses, serial publications

370.6  Collected works (nonserial)

370.7  Dictionaries and encyclopedias

371  General works, treatises, and textbooks

371.4  Juvenile works

371.5  Addresses, essays, lectures

372  Special aspects of the subject as a whole

372.2.A-Z  Special topics, A-Z

372.2.D4  Design

Study and teaching. Research

372.22  General works

372.24  Laboratory manuals

372.6  Handbooks, tables, formulas, etc.

373.A-Z  Special instruments, A-Z

373.B3  Beam splitters

373.B55  Binoculars. Field glasses

373.C64  Collimators

Diffraction gratings see QC417
Field glasses see QC373.B55
Hand lenses see QC373.M33

373.H5  Heliostat

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373.K3
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373.L5
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373.M33
  Mass spectrometers see QC454.M3
  Microscopes see QH211+
373.O59
  Optical detectors
373.P7
  Polariscoppe
373.Q2
  Polarizing apparatus see QH217
  Q-switching
373.R4
  Reflectometer see QC425.4
  Reflectometers see QC426.4
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373.S3
  Scanning systems see TK7882.S3
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    Including schlieren methods
373.S7
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373.S8
  Stereoscope
373.S85
  Stroboscopes
  Telemeter see TK399
  Telescopes see QB88+
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374.5
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  Quartz
378
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  Transparent ceramics
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  Cf. QC974.5+ Meteorological optics
  Cf. TA1659.5+ Micro-optics
  Cf. TR220 Photographic optics
380
  Early works through 1800
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381.2
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381.4
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381.6
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382.2
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382.6
  Laboratory manuals
383
  Mathematical theory

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  Cf. QB88+ Astronomical instruments
  Cf. RE961 Ophthalmology
  Cf. TC379 Lighthouse lenses
  Cf. TP867 Mirrors and mirror frames
  Cf. TR270+ Camera lenses
  Cf. TS517.3+ Manufacture of optical surfaces

385  General works
385.2.A-Z  Special topics, A-Z
385.2.D47  Design
  Cf. QC372.2.D4 Optical instrument design

385.5  Experiments
387  Refractive indices
  Cf. QC426.4 Refractometers
389  Transmission of radiation
391  Photometry. Microphotometry
  Including densitometers
  Cf. QB135 Astronomical photometry
  Cf. TK4367 Electric light testing
  Cf. TP754 Gas light testing

Physical optics
392  Periodicals, societies, congresses, serial publications
393  Collected works (nonserial)
393.2  Dictionaries and encyclopedias
394  Early works through 1800
  General works, treatises, and advanced textbooks
395  1801-1969
395.2  1970-
396  Elementary textbooks
397  Addresses, essays, lectures
397.5.A-Z  Special topics, A-Z
397.5.I53  Images
397.5.O77  Optical losses

Study and teaching. Research
398  General works
398.2  Problems, exercises, examinations

Theories of light
401  General works
402  Corpuscular theory
  Cf. QC446.15+ Quantum optics
403  Wave theory
  Cf. QC669+ Electromagnetic theory
406  Miscellaneous speculations
407  Velocity of light
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Interference
  Including Newton's rings, interferometer
  Cf. QH212.I5 Interference microscopes
410.9  Periodicals, societies, congresses, serial publications
411  General works, treatises, and textbooks
411.4  Instruments and apparatus
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414.8  Periodicals, societies, congresses, serial publications
414.9  Collected works (nonserial)
415  General works, treatises, and textbooks
416  Addresses, essays, lectures
417  Instruments and apparatus
  Including diffraction gratings
Reflection
425  General works
425.2  Juvenile works
425.4  Instruments and apparatus
  Including reflectometers
Refractation
425.9  Collected works (nonserial)
426  General works, treatises, and textbooks
426.2  Juvenile works
426.4  Instruments and apparatus
  Including refractometers
426.6  Handbooks, tables, formulas, etc.
426.8.A-Z  Special topics, A-Z
426.8.D68  Double refraction
426.8.N44  Negative refraction
Scattering (General)
427  Periodicals, societies, congresses, serial publications
427.4  General works, treatises, and textbooks
427.6  Handbooks, tables, formulas, etc.
427.8.A-Z  Special topics, A-Z
427.8.C7  Critical opalescence
427.8.C73  Critical scattering
427.8.M5  Mie scattering
427.8.R3  Rayleigh scattering
427.8.S64  Speckle
  Cf. TA1671+ Lasers and laser applications
Dispersion
431  General works
435  Anomalous dispersion
437  Incidence
  Including grazing incidence
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Polarization
   Cf. QD481 Stereochemistry
   Cf. TP382 Saccharimetry
440  Periodicals, societies, congresses, serial publications
441  General works, treatises, and textbooks
442  Addresses, essays, lectures
443  Production and measurement
445  Rings and brushes of crystals
   Cf. QD941 Optical properties of crystals
446.A-Z  Other special topics, A-Z
446.D5  Dichroism
Nonlinear optics. Quantum optics
   For maser and laser physics see QC685+
446.15  Periodicals, societies, congresses, serial publications
446.2  General works, treatises, and textbooks
446.3.A-Z  Special topics, A-Z
446.3.A54  Angular momentum
446.3.C45  Chaos
446.3.H37  Harmonics (Electric waves)
446.3.O65  Optical bistability
446.3.O67  Optical phase conjugation
446.3.O68  Optical pumping
446.3.S67  Squeezed light
Magnetooptics see QC675+
(447)  Electronic optics
   see QC793.5.E62+
Fiber optics
   Cf. TA1800+ Applied fiber optics
447.9  Periodicals, societies, congresses, serial publications
448  General works, treatises, and textbooks
448.2  Addresses, essays, lectures
Holography
   Cf. HD9707.5.H34+ Holography industry
   Cf. QC244.5 Acoustic holography
   Cf. TA1540+ Applied holography
449  General works
449.3  Electron holography
449.5  Optical tomography
Optics. Light -- Continued
Spectroscopy

Class here general works on the theory of spectroscopy and
works intended primarily for physicists, including the
spectroscopy of all electromagnetic radiations

Class here also compilations of spectra of elements, groups of
elements, organic and inorganic compounds

For works on the application of spectroscopy in analytical
chemistry and theoretical works intended primarily for
chemists, see QD95-QD96; QD272.S6

450 Periodicals, societies, congresses, serial publications
450.15 Collected works (nonserial)
450.3 Dictionaries and encyclopedias
450.5 History
451 General works, treatises, and textbooks
451.2 Pictorial works and atlases
451.4 Addresses, essays, lectures
451.6 Special aspects of the subject as a whole
Study and teaching. Research
451.8 General works
451.82 Laboratory manuals
452 Data processing
452.5 Instruments and apparatus
453 Handbooks, tables, formulas, etc.
   Including wavelength tables
454.A-Z Special types of spectra and spectroscopy, A-Z
454.A2 Absorption spectra
454.A25 Accelerator mass spectrometry
   Alpha ray spectroscopy see QC793.5.A22+
454.A7 Arc spectra
454.A8 Atomic spectroscopy
   Band spectra see QC454.M6
454.B39 Beam-foil spectroscopy
   Beta spectroscopy see QC793.5.B42+
454.B74 Broadband dielectric spectroscopy
454.C634 Collision spectroscopy
454.E4 Electron spectroscopy
454.E46 Emission spectroscopy
454.F6 Flame spectroscopy
454.F7 Fourier transform spectroscopy
454.F85 Frequency spectra
   Gamma spectroscopy see QC793.5.G32+
454.G3 Gas spectra
454.H33 Hadamard transform spectroscopy
   Hadron spectroscopy see QC793.5.H32+
454.H618 High resolution spectroscopy
454.H9 Hyperfine spectra
Optics. Light
Spectroscopy
Special types of spectra and spectroscopy, A-Z --
Continued
In-beam gamma ray spectroscopy see QC793.5.G32+
Infrared spectrum see QC457
454.I48  Integral field spectroscopy
454.I5   Internal reflection spectroscopy
454.L3   Laser spectroscopy
454.L58  Level-crossing spectroscopy
454.L63  Light-beating spectroscopy
Luminescence spectroscopy see QC476.6
Magnetic resonance spectroscopy see QC762
454.M3   Mass spectroscopy
454.M32  Matrix isolation spectroscopy
454.M5   Microwave spectroscopy
454.M6   Molecular spectroscopy
Mössbauer spectroscopy see QC491
Neutron spectroscopy see QC793.5.N462+
Nuclear magnetic resonance spectroscopy see QC762
454.M8   Nuclear spectroscopy
        Cf. QC793.5.A22+ Particle spectra
454.O66  Optical spectroscopy
454.O68  Optogalvanic spectroscopy
        Particle spectra see QC793.5.A22+
454.P46  Photodetachment threshold spectroscopy
454.P48  Photoelectron spectroscopy
        Plasma spectroscopy see QC718.5.S6
454.R3   Radiofrequency spectroscopy
454.R36  Raman spectroscopy
454.R4   Reflectance spectroscopy
454.R47  Resonance ionization spectroscopy
454.R5   Resonant ultrasound spectroscopy
        Rotational spectra see QD481
Scintillation spectroscopy see QC491.5+
Solar spectroscopy (Meteorology) see QC910.2+
Solar spectroscopy (Optics) see QC455
454.S7   Spark spectroscopy
454.T47  Terahertz spectroscopy
        Time-of-flight mass spectroscopy see QC454.M3
454.T75  Tunneling spectroscopy
Ultraviolet spectroscopy see QC459+
454.V5   Vibrational spectra
        X-ray spectroscopy see QC482.S6
454.Z44  ZEKE spectroscopy

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Optics. Light
Spectroscopy -- Continued

455          Solar spectrum
   Including wavelength measurements and maps
   For works relating to the constitution and physical
   condition of the sun see QB551

457          Infrared spectrum
   Cf. TA1570+ Infrared technology

Ultraviolet spectrum
   Cf. TA1501+ Applied optics. Lasers

459          General works
459.5        Far ultraviolet spectrum

Spectra of special substances
462.A-Z      Special elements and groups of elements, A-Z (Table Q1
             modified)
462.C65      Colloids
462.M47      Metal vapors
462.M49      Metals
462.R2       Rare earths
462.T85      Trace elements
462.T86      Transition metals

Organic compounds
462.5        General works, treatises, and textbooks
462.85       Handbooks, tables, formulas, etc.
463.A-Z      Special organic compounds, A-Z
463.A4       Alcohols
463.A47      Alkaloids
463.A8       Amines
463.A84      Anthracene and derivatives
463.A86      Anthraquinones
463.B4       Benzene
463.B5       Biphenyl compounds
463.C3       Carbohydrates
463.C5       Chelates
463.C54      Chlorophyll
463.C57      Chroman
463.C78      Coordination compounds
463.E68      Essences and essential oils
463.E69      Esters
463.E7       Ethers and oxides
463.F55      Fluorocarbons
463.F6       Formaldehyde
463.F8       Furans
463.G84      Gums and resins
463.H4       Heterocyclic compounds
463.H9       Hydrocarbons
463.I44      Imidazole
### Optics. Light

#### Spectroscopy

- Spectra of special substances
- Organic compounds
  - Special organic compounds, A-Z -- Continued

<table>
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<tr>
<th>Call Number</th>
<th>Description</th>
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<tr>
<td>463.I5</td>
<td>Indole alkaloids</td>
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<tr>
<td>463.M38</td>
<td>Metal carbonyls</td>
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<td>463.N35</td>
<td>Naphthoquinone</td>
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<td>463.O7</td>
<td>Organometallic compounds</td>
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<td>463.O72</td>
<td>Organophosphorus compounds</td>
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<td>463.O73</td>
<td>Organosilicon compounds</td>
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<td>Plasticizers</td>
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<td>Sulfur organic compounds</td>
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<td>464.A43</td>
<td>Alkali metal halides</td>
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<td>464.A44</td>
<td>Alkaline earth ferricyanides</td>
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<td>Ammonia</td>
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<td>Calcium fluoride</td>
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<td>Carbon disulfide</td>
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<td>464.F45</td>
<td>Ferroelectric crystals</td>
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<td>Fused salts</td>
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<td>464.G55</td>
<td>Glass</td>
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<td>464.H93</td>
<td>Hydrides</td>
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<td>Hydrochloric acid</td>
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<td>464.M47</td>
<td>Mercury compounds</td>
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<td>464.M48</td>
<td>Metallic oxides</td>
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<td>Mica</td>
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<td>Nitrates</td>
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<td>464.N574</td>
<td>Nitric acid</td>
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<td>464.N577</td>
<td>Nitrogen dioxide</td>
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<td>464.N64</td>
<td>Nonmetallic minerals</td>
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464.P44                Phosphates
464.P46                Phosphorus compounds
464.P68                Potassium hydride
464.P685               Potassium phosphates
464.Q37                Quartz
464.S45                Selenium compounds
464.S54                Silicates
464.S546               Silver chloride
464.S63                Sodium halides
464.S635               Sodium hydride
464.S637               Sodium nitroferricyanide
464.S94                Sulfur dioxide
464.T44                Tellurium chlorides
464.T54                Thallium chloride
464.U73                Uranium compounds
464.W37                Water
464.Z57                Zirconium oxide
465                Instruments and apparatus
                        Including absorptionmeter
467                Structure of spectral lines. Effect of pressure. Stark effect, etc.
                        Cf. QC675.5.Z4 Zeeman phenomenon
Radiation physics (General)
                        Cf. QA935+ Wave propagation in elastic solids
                        Cf. QB531 Astronomy
                        Cf. QC191 Elastic properties of solids
                        Cf. QC331+ Thermal radiation
                        Cf. QC787.C6 Nuclear counters, etc.
                        Cf. QC793.5.A+ Radiation of special particles
                        Cf. QC910.2+ Solar radiation
                        Cf. QD601+ Radiation chemistry
                        Cf. OP82.2.R3 Physiological effect
474                Periodicals, societies, congresses, serial publications
474.5               Collected works (nonserial)
475                General works, treatises, and textbooks
475.25              Juvenile works
475.5               Study and teaching. Research
475.6               Special aspects of the subject as a whole
475.7               Technique
475.8               Instruments and apparatus
476.A-Z             Special topics, A-Z
476.C6              Coherence
                        Duality, Wave-particle see QC476.W38
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Special topics, A-Z -- Continued

476.S6      Sources of radiation
476.S86      Superradiance
476.W38      Wave-particle duality
             Cf. QC401+ Theories of light
Luminescence
             Cf. QC976.A3 Airglow
             Cf. QD505.8 Chemiluminescence

476.4      Periodicals, societies, congresses, serial publications
476.45     Collected works (nonserial)
476.5      General works, treatises, and textbooks
476.6      Luminescence spectroscopy
             Luminescent materials. Phosphors. Scintillators
             Cf. QC787.S34 Scintillation counters

476.7      General works
476.75     Inorganic scintillators
476.77     Organic scintillators

Photoluminescence (General)
476.8      General works
            Fluorescence
477        General works
477.2      Instruments and apparatus
            Including fluorimeters
477.4      Sensitized fluorescence
Phosphorescence
            Cf. QD79.P4 Phosphorimetry
            Cf. QH641 Bioluminescence
            Cf. TK454.4.P5 Phosphors (Electrical engineering)
            Cf. TK7871.15.P4 Phosphors (Electronics)

477.8      Periodicals, societies, congresses, serial publications
477.9      Collected works (nonserial)
478        General works, treatises, and textbooks

479        Thermoluminescence
479.5      Cathodoluminescence
480        Electroluminescence
480.2      Sonoluminescence

X-rays. Roentgen rays
            Cf. QB472+ X-ray astronomy
            Cf. QC710+ Discharges through gases
            Cf. QH212.X2 X-ray microscopes
            Cf. RC78+ Medical radiography
            Cf. RM845+ Radiotherapy
            Cf. TR750 Radiography (Photography)

480.8      Periodicals, societies, congresses, serial publications
480.9      Dictionaries and encyclopedias
481        General works, treatises, and textbooks
Radiation physics (General)
X-rays. Roentgen rays -- Continued

481.5
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Cf. RC78.5 Radiography
Cf. RM862.5 Radiotherapy
Cf. TR750 Applied photography

482.A-Z
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482.D5
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482.G68
Grenz rays

482.P6
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482.S3
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482.S6
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482.2
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482.3
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(483)
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see QC660.5+

484
Blackbody radiation
Bremsstrahlung

484.2
Periodicals, societies, congresses, serial publications

484.3
General works, treatises, and textbooks

484.5
Study and teaching. Research

484.6.A-Z
Special topics, A-Z

484.6.I5
Inner Bremsstrahlung

Cosmic ray physics
Cf. QB463+ Nuclear astrophysics
Cf. QC770+ Nuclear physics
Cf. QC809.V3 Van Allen radiation belts

484.8
Periodicals, societies, congresses, serial publications

484.85
Collected works (nonserial)

484.9
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485
General works, treatises, and textbooks

485.4
Popular works

485.42
Juvenile works

485.5
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485.55
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Observations. Data summaries

485.57
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485.575.A-Z
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485.6
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485.7
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Cf. QC785.5+ Nuclear instruments and apparatus

485.75
Handbooks, tables, formulas, etc.

485.8.A-Z
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485.8.B8
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485.8.F6              Forbush decreases
485.8.O7              Origin
485.8.S5              Showers
485.8.S8              Stars
485.8.V3              Variations, Diurnal, etc.
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485.9.A-Z              Special types, A-Z
485.9.A8              Atmospheric cosmic rays
485.9.G34              Galactic cosmic rays
485.9.P7              Primary cosmic rays
485.9.S4              Secondary cosmic rays
485.9.S6              Solar cosmic rays
485.9.U6              Underground cosmic rays
Other radiations
  Alpha radiations see QC793.5.A22+
  Beta rays see QC793.5.B42+
  Cherenkov radiation
490.4              General works, treatises, and textbooks
  Instruments and apparatus see QC787.C6
  Gamma rays see QC793.5.G32+
  Infrared rays. Infrared spectrometry see QC457
  Radiation and spectra of isotopes see QC795.8.S6
491              Mössbauer effect. Mössbauer spectroscopy
  Scintillation spectroscopy
491.5              Periodicals, societies, congresses, serial publications
492              General works, treatises, and textbooks
  Instruments and apparatus see QC787.S34
  Van Allen radiation see QC809.V3
Color
  Cf. BF789.C7 Psychology
  Cf. ML3840 Music and color
  Cf. QD113 Colorimetry in analytic chemistry
  Cf. QD473 Color in relation to atomic structure
  Cf. QP483 Physiological effect
  Cf. RM840 Phototherapy
  Cf. TR510+ Color photography
  Cf. TR977 Photomechanical color processes
494              Periodicals, societies, congresses, serial publications
494.15             Collected works (nonserial)
494.2             Dictionaries and encyclopedias
494.3             Nomenclature, terminology, notation, abbreviations
494.7             History
494.8             Early works through 1800
495              General works, treatises, and advanced textbooks
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495.15  Elementary textbooks
495.2   Pictorial works and atlases
495.3   Popular works
495.5   Juvenile works
495.7   Addresses, essays, lectures
495.8   Special aspects of the subject as a whole
Study and teaching, Research

496   General works
496.15  Outlines, syllabi
496.3   Experiments
496.4   Laboratory manuals
496.6   Instruments and apparatus
       Including colorimeters
496.8   Handbooks, manuals, etc.
496.9   Miscellany and curiosa

Electricity and magnetism

Cf. QC960.5+ Atmospheric electricity
Cf. TK1+ Electrical engineering

Electricity

Including works that deal collectively with electricity and magnetism
For electric properties of solids see QC176.8.E35

501   Periodicals, societies, congresses, serial publications
503   Collected works (nonserial)
505   Dictionaries and encyclopedias
506   Philosophy. Theory
506.5  Nomenclature, terminology, notation, abbreviations
507   History

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514   Collective
       e.g.
515.A6  Ampère
515.O4   Ohm

Early works

516   Through 1700
517   1701-1850

General works, treatises, and advanced textbooks
1851-1969

518   Treatises
521   Descriptive and experimental works
522   1970-
523   Elementary textbooks
527   Popular works
527.2  Juvenile works
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527.4          Addresses, essays, lectures
527.5          Special aspects of the subject as a whole
528.A-Z          Special topics, A-Z
528.E4          Electromechanical analogies
                  Maxwell's equations see QC669+
528.V4          Vector theory
529          Handbooks, tables, formulas, etc.
                  Study and teaching. Research
                  For programmed texts see QC518+
530          General works
531          Outlines, syllabi
532          Problems, exercises, examinations
533          Experiments
534          Laboratory manuals

Electric measurements

                  Cf. TK275+ Electrical engineering
535          General works
536          Electric units
537          Standards

Laboratories

541.A1          General works
541.A3-Z          By region or country, A-Z
                  Subarrange each country by Table Q6

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543          General works, treatises, and textbooks
544.A-Z          Special instruments, A-Z
544.A5          Ammeter
                  see QC645
544.C3          Cathode ray tubes
                  see TK7871.73
544.C8          Current balance
544.E3          Electrodynamometer
544.E4          Electrometer
544.E45          Electrophori
544.E5          Electrostatic lenses
544.G2          Galvanometer
544.G3          Gas tubes
                  see TK7871.8+
544.P5          Phonic wheel
544.P8          Potentiometer
544.Q3          Quadruple lenses
Electricity and magnetism

Electricity

Instruments and apparatus (General)

Special instruments, A-Z -- Continued

(544.V3)

Vacuum tubes

see TK7871.72+

561

Miscellany and curiosa

Electrostatics. Frictional electricity

Cf. QA825+ Attractions and potential
Cf. QC960.5+ Atmospheric electricity
Cf. TP156.E5 Electrostatic separation

570

Periodicals, societies, congresses, serial publications

571

General works, treatises, and textbooks

571.4

Juvenile works

571.5

Addresses, essays, lectures

Study and teaching. Research

572

General works

572.4

Experiments

573

Instruments and apparatus

Including frictional and induction machines

577

Electrocapillary phenomena

581.A-Z

Other topics, A-Z

581.E4

Electric charge and distribution

581.I5

Induction

581.P6

Potential difference

581.V6

Volta effect

Dielectrics

Cf. TK3401+ Electric insulation

584

Periodicals, societies, congresses, serial publications

584.2

Collected works (nonserial)

585

General works, treatises, and textbooks

585.4

Addresses, essays, lectures

585.5

Study and teaching. Research

585.7.A-Z

Special topics, A-Z

585.7.B7

Breakdown

585.7.C6

Constant

585.7.D5

Dielectrophoresis

585.7.E43

Electric discharge

585.7.H4

Heating

585.7.L6

Loss

585.7.M3

Magnetic properties

585.7.O6

Optical properties

585.7.R3

Radiation effects

585.7.R4

Relaxation

585.75.A-Z

Specific dielectric substances, A-Z

585.75.S55

Silica

585.8.A-Z

Special types of dielectrics, A-Z
Electricity and magnetism

Electricity

Electrostatics. Frictional electricity

Dielectrics

Special types of dielectrics, A-Z -- Continued

- Electrets
- Gaseous
- Liquid

Measurement of capacity

- Cf. TK2805 Condensers (Dynamoelectric machinery)
- Cf. TK7872.C65 Condensers (Electronics)

Pyroelectricity

- Cf. QD939 Electric properties of crystals
- Cf. TK7872.O7 Oscillators

Piezoelectricity

- Cf. TK7872.P54 Piezoelectric devices

Ferroelectricity

- Cf. QC715.17 Photoferroelectric effect
- Cf. QD939 Electric properties of crystals

Periodicals, societies, congresses, serial publications

596

- Cf. TK7872.O7 Oscillators

596.5

- General works, treatises, and textbooks

596.9

- Addresses, essays, lectures

Electric current (General)

- Cf. QC841 Alternating currents
- Cf. QD551+ Electrolysis
- Cf. TK454+ Electric circuits and networks

601

- General works

607

- Ohm's law

(610)

- Conduction in gases and vapors
  
  - see QC710+

Electric conductivity

- Cf. TK3301+ Electric conductors

610.3

- Periodicals, societies, congresses, serial publications

610.4

- General works, treatises, and textbooks

Electric resistance

- Cf. QC781+ Magnetic induction
- Cf. QC809.E15 Earth resistance
- Cf. TK7872.R4 Electric resistors

610.6

- General works

610.7

- Magnetoresistance

Semiconductor physics

- Class here general works on the physical properties of semiconductor materials
  
  - For works on semiconductor materials used in electronic engineering see TK7871.85+
  - Cf. QC176.8.E4 Solid-state electronics

610.9

- Periodicals, societies, congresses, serial publications
Electricity and magnetism

Electricity

Electric current (General)

Electric conductivity

Semiconductor physics -- Continued

610.92
Collected works (nonserial)

610.94
Nomenclature, terminology, notation, abbreviations

610.96
History

611
General works, treatises, and textbooks

611.2
Addresses, essays, lectures

611.24
Special aspects of the subject as a whole

Study and teaching, Research

611.26
General works

611.28
Problems, exercises, examinations

611.3
Laboratory manuals

611.4
Instruments and apparatus

611.45
Handbooks, tables, formulas, etc.

611.6.A-Z
Special topics, A-Z

611.6.A36
Acoustic properties

611.6.D4
Defects

611.6.D5
Diffusion

611.6.D6
Doping

611.6.E43
Electron-hold droplets

611.6.E45
Electron transport

Energy-band theory see QC176.8.E4

611.6.G3
Galvanometric effects

611.6.H6
Holes

611.6.H67
Hot carriers

611.6.J85
Junctions

611.6.M64
Molecular beam epitaxy

611.6.O6
Optical effects

611.6.P52
Photoelectromagnetic effects

611.6.P55
Plasma effects

611.6.Q35
Quantum dots

611.6.Q36
Quantum optics

611.6.R3
Radiation effects

611.6.R43
Recombination

Reliability see TK7871.85+

611.6.S9
Surface properties

611.6.T4
Thermal properties

611.8.A-Z
Specific semiconducting substances and types, A-Z

611.8.A44
Alloys

611.8.A5
Amorphous substances

611.8.C34
Cadmium arsenide

611.8.C45
Chalcopyrite

611.8.C6
Compensated semiconductors

611.8.C64
Compound semiconductors
Electricity and magnetism

Electricity

Electric current (General)

Electric conductivity

Semiconductor physics

Specific semiconducting substances and types, A-Z --

Continued

611.8.D66  Doped semiconductors
611.8.G3   Gallium arsenide
611.8.G4   Germanium
611.8.I52  Indium arsenide
611.8.L4   Lead chalcogenides
611.8.L5   Liquids
611.8.L68  Low-dimensional semiconductors
611.8.M25  Magnetic substances
611.8.M27  Many-valley semiconductors
611.8.M38  Mercury telluride
611.8.M4   Metal oxides
611.8.N33  Nanocrystals
611.8.N35  Narrow gap semiconductors
611.8.O68  Ore minerals
611.8.O7   Organic substances
611.8.P64  Polycrystalline semiconductors
611.8.R37  Rare earths
611.8.S44  Selenium
611.8.S45  Semimetals
611.8.S5   Silicon
611.8.S86  Superlattices
611.8.T44  Tellurium
611.8.W53  Wide gap semiconductors

Superconductivity physics

Cf. QC175.4+ Superfluid physics

611.9  Periodicals, societies, congresses, serial collections
611.917 History
611.92  General works, treatises, and textbooks
611.922 Juvenile works
611.924 Handbooks, tables, formulas, etc.

Superconducting materials. Superconductors

Cf. QC761.3 Superconducting magnets
Cf. TK7872.C77 Cryoelectronic devices
Cf. TK7872.S8 Engineering
Cf. TK7895.C7 Cryotrons

611.94  Periodicals, societies, congresses, serial collections
611.95  General works, treatises, and textbooks
Study and teaching. Research
611.96  General works

By region or country
Electricity and magnetism

Electricity

Electric current (General)

Electric conductivity

Superconductivity physics

Superconducting materials. Superconductors

Study and teaching. Research

By region or country -- Continued

United States

611.962                              General works
611.964.A-Z                          By region or state, A-Z
611.966.A-Z                          Other regions or countries, A-Z
611.97.A-Z                           Special topics, A-Z

611.97.C54                           Chemistry
611.97.E69                           Equilibrium

Including nonequilibrium

611.97.F58                           Fluctuations
611.97.M34                           Magnetic properties

Nonequilibrium see QC611.97.E69

611.97.R33                           Radiation effects
611.97.S64                           Spectra
611.97.T46                           Temperature effects

Including transition temperature

611.97.T54                           Thermal properties

Transition temperature see QC611.97.T46

611.97.T86                           Tunneling
611.98.A-Z                           Special superconducting materials or types of

superconductors, A-Z

611.98.A44                           Alloys
611.98.A48                           Aluminum
611.98.A58                           Anyon superconductivity
611.98.C47                           Ceramic superconductors
611.98.C53                           Chalcogenides
611.98.C63                           Composites
611.98.C64                           Copper
611.98.D33                           d-band metals
611.98.D57                           Dirty superconductors
611.98.H54                           High temperature superconductors
611.98.M34                           Magnetic
611.98.N54                           Niobium
611.98.O74                           Organic superconductors
611.98.R88                           Ruthenium
611.98.T37                           Ternary superconductors
611.98.T55                           Thin film superconductors
611.98.T73                           Transition metal oxides
611.98.T86                           Type I superconductors
611.98.T87                           Type II superconductors

130
Electricity and magnetism

Electricity

Electric current (General)

Electric conductivity

Superconductivity physics

Superconducting materials. Superconductors

Special superconducting materials or types of superconductors, A-Z -- Continued

611.98.V35

Vanadium

611.98.Z56

Zinc

612.A-Z

Other special topics, A-Z

612.H3

Hall effect

Cf. TK7872.H3 Hall effect devices

612.P5

Photoconductivity

Cf. TK8330+ Photoconductive cells

612.P6

Potential barrier

612.S6

Skin effect

Superconductivity see QC611.9+

613

Electric resonance

Cf. QC762 Nuclear magnetism

Cf. QC794.6.R4 Nuclear interaction

615

Measurements of currents

Including ammeters, voltmeters

618

Electromotive force

Including voltmeters

Thermoelectricity. Thomson effect. Peltier effect

Cf. TK2950+ Applied thermoelectricity

621

General works

623

Heating effects of currents

625

Electrokinetics

Electrodynamics

Cf. QA920 Magnetohydrodynamic theory

Cf. QC717+ Ion flow dynamics

Cf. QC718.5.M36 Magnetohydrodynamics (Plasma physics)

Cf. QC809.E55 Geophysics

630

Periodicals, societies, congresses, serial publications

630.15

Collected works (nonserial)

630.2

Dictionaries and encyclopedias

630.5

History

631

General works, treatises, and textbooks

631.2

Addresses, essays, lectures

631.3

Special aspects of the subject as a whole

Study and teaching. Research

631.7

General works

631.75

Problems, exercises, examinations

631.8

Laboratory manuals
Electricity and magnetism

Electricity

Inductance. Induction

Alternating currents (Theory)

Cf. TK1141+ Alternating current engineering
Cf. TK2711+ Alternating current machinery

Electric corona

Periodicals, societies, congresses, serial publications

General works, treatises, and textbooks

Instruments and apparatus

Special topics, A-Z

Discharge

Pressure

Electric coils

Including induction coils

Cf. TK2391 Electric coils (Dynamoelectric machinery)
Cf. TK2805 Condensers (Dynamoelectric machinery)
Cf. TK7872.C56 Electronics

Vacuum polarization

Electric oscillations. Electric waves

Including electromagnetic waves

Cf. QB460+ Astrophysics
Cf. QC809.E55 Cosmic electrodynamics

Periodicals, societies, congresses, serial publications

General works, treatises, and textbooks

Addresses, essays, lectures

Special topics, A-Z

Damping

Diffraction

Diffusion

Electric displacement

Electric fields

Electromagnetic fields

Electromechanical analogies

Photoabsorption

Polarization

Quadrupole moment

Scattering

Transmission

Velocity

Study and teaching. Research

General works

Problems, exercises, examinations

Instruments and apparatus

Including decremeters
Electricity and magnetism

Electricity

Electric oscillations. Electric waves -- Continued

Electromagnetic theory

Including Maxwell's equations

669  Periodicals, societies, congresses, serial publications
670  General works, treatises, and textbooks
Study and teaching. Research

670.7  General works
670.75  Problems, exercises, examinations
671  Aberrations and moving media

Cf. QB163 Correction of astronomical observations

Electrooptics (General)

Cf. TA1750+ Applied electrooptics

673  General works
673.5.A-Z  Special topics, A-Z
673.5.K4  Kerr effect

Magnetooptics (General)

675  General works
675.5.A-Z  Special topics, A-Z
675.5.F3  Faraday effect
675.5.Z4  Zeeman effect
675.8  Microwave optics (General)

Radio waves (Theory)

Cf. QC972.6+ Radio meteorology
Cf. TK6540+ Radio engineering

676  Periodicals, societies, congresses, serial publications
676.4  General works, treatises, and textbooks
676.6  Addresses, essays, lectures
676.7.A-Z  Special topics, A-Z
676.7.D5  Diffraction
676.7.S3  Scattering
676.7.S35  Scintillation
676.7.T7  Transmission

Microwaves (Theory)

Cf. QC718.5.M5 Plasma physics
Cf. TK7871.4 Masers
Cf. TK7876+ Electronics

677  Periodicals, societies, congresses, serial publications
678  General works, treatises, and textbooks
678.2  Addresses, essays, lectures
Study and teaching. Research
678.4  General works
678.6  Laboratory manuals

Quantum electrodynamics

Cf. QC793.3.E4 Elementary particle physics

679  Periodicals, societies, congresses, serial publications
Electricity and magnetism

Electricity

Quantum electrodynamics -- Continued

679.6  Collected works (nonserial)
680  General works, treatises, and textbooks
680.5  Addresses, essays, lectures

Quantum electronics

Including maser and laser physics
Cf. TA1671+ Lasers
Cf. TK7871.4 Masers

685  Periodicals, societies, congresses, serial publications
686  Collected works (nonserial)
687  Dictionaries and encyclopedias
687.2  History
688  General works, treatises, and textbooks
689  Addresses, essays, lectures
689.5.A-Z  Special topics, A-Z
689.5.L35  Laser manipulation
689.5.L37  Laser pulses
689.55.A-Z  Special types of lasers, A-Z
689.55.F75  Free electron lasers
689.55.P53  Plasma lasers
689.55.S45  Semiconductor lasers
700  Field emission

Electric discharge

701  General works, treatises, and textbooks

Ions. Ionization. Thermionic emission (General)

Cf. QC972.6+ Radio meteorology
Cf. QD561+ Electrochemistry
Cf. QD601+ Radiochemistry

701.7  Periodicals, societies, congresses, serial publications
702  General works, treatises, and textbooks
702.3  Instruments and apparatus

Cf. QC787.16 Ionization chambers

702.5  Ionization of specific gases, liquids, etc.
702.7.A-Z  Other special topics, A-Z
702.7.A9  Auger effect
702.7.B65  Bombardment
702.7.E38  Electron impact ionization
702.7.E4  Emission, Secondary ion
702.7.H42  Heavy ions
702.7.I55  Ion implantation
702.7.I57  Ion swarms

Magnetic ions see QC754.2.M333

702.7.M84  Multiply charged ions
702.7.N4  Negative ions. Anions
Electricity and magnetism
Electricity
Electric discharge
Ions. Ionization. Thermionic emission (General)
Other special topics, A-Z -- Continued

702.7.P48
Photoionization
Class here works on the physics of ionization produced by photons of light, X-rays or gamma rays.
For general works on chemical and physical aspects of photoionization see QD716.P48

702.7.P6
Positive ions

702.7.R4
Recombination of ions

702.7.S3
Scattering
Secondary ion emission see QC702.7.E4

702.7.T73
Trapped ions
Spark discharge (General)
Cf. QC454.A+ Spectra of special elements
Cf. QC966+ Lightning

703
General works

703.5
Breakdown of spark

703.7
Exploding wire phenomenon

705
Arc discharge
Cf. TK4311+ Arc lighting
Electric discharge through gases
Including cathode rays, canal rays
Cf. QC480.8+ X-rays
Cf. QC793.5.E62+ Electron emission
Cf. TK7871.7+ Electron tubes

710
Periodicals, societies, congresses, serial publications

711
General works, treatises, and textbooks

711.3
Addresses, essays, lectures

711.4
Special aspects of the subject as a whole

711.6.A-Z
Electric discharge through specified gases, A-Z

711.6.A7
Argon

711.6.O9
Oxygen

711.8.A-Z
Special topics, A-Z

711.8.A34
Afterglow

711.8.B7
Breakdown of spark

711.8.D5
Dissociation

711.8.G5
Glow discharge

711.8.P6
Polarization

711.8.R35
Radio frequency discharges
Electricity and magnetism
Electricity
Electric discharge -- Continued
Photoelectricity. Photoelectric cells
  Including other effects of light, X-rays, etc., on discharge
  Cf. QC391 Photometry
  Cf. QC793.5.P42+ Photons
  Cf. QC794.8.P4 Photonuclear interactions
  Cf. QD701+ Photochemistry
  Cf. TK8300+ Optoelectronic devices. Photoelectronic devices

715  General works
715.15  Photoemission
715.17  Photoferroelectric effect
715.2  Photoelectric properties of special substances
  Including sensitivity
715.4  Photoelectric cells
  Including photovoltaic effect

Ion flow dynamics
717  General works
717.5.A-Z  Special topics, A-Z
717.5.I6  Ionic mobility

Plasma physics. Ionized gases
  Cf. QA920 Magnetohydrodynamics
  Cf. QC790.95+ Nuclear fusion
  Cf. QC809.P5 Plasma (Cosmic physics)
  Cf. TA2001+ Plasma engineering
  Cf. TK2970 Magnetohydrodynamic generators
  Cf. TL783.6 Plasma rockets

717.6  Periodicals, societies, congresses, serial publications
717.8  Collected works (nonserial)
718  General works, treatises, and textbooks
718.15  Addresses, essays, lectures
718.4  Special aspects of the subject as a whole
718.5.A-Z  Special topics, A-Z
  Accelerators see QC718.5.M36
  Collisions with matter see QC718.5.P5
  Collisions with particles see QC718.5.P55
  Conductivity see QC718.5.T7
  Confinement
  Controlled fusion see QC791.7+
718.5.C9  Cyclotron waves
718.5.D38  Dense plasma focus
718.5.D4  Density
718.5.D5  Diagnostics
  Diffusion see QC718.5.T7
718.5.D7  Drift
Electricity and magnetism

Electricity

Plasma physics. Ionized gases

Special topics, A-Z -- Continued

718.5.D84 Dusty plasmas
718.5.D9 Dynamics
718.5.E37 Electric fields
718.5.E4 Electrodynamics
718.5.E45 Electromagnetics
Electron oscillations and resonances see QC718.5.W3
718.5.E48 Electrostatics
718.5.E66 Equilibrium
Including nonequilibrium
718.5.G95 Gyrotrons
Heat conduction see QC718.5.T7
718.5.H5 High temperature
718.5.H9 Hydrodynamics
Instabilities see QC718.5.S7
Ion waves see QC718.5.W3
Kinetics see QC718.5.T5
718.5.L3 Laser-produced plasmas
718.5.L6 Low temperature
718.5.M3 Magnetic fields
718.5.M36 Magnetohydrodynamics
Including plasma accelerators
Cf. QA920 Magnetohydrodynamic theory
718.5.M5 Microwaves
718.5.N4 Neutrality
Including nonneutrality
Nonequilibrium see QC718.5.E66
718.5.O6 Optical phenomena
Oscillations see QC718.5.W3
718.5.P45 Pinch effect
Plasma accelerators see QC718.5.M36
718.5.P5 Plasma reactions with matter
718.5.P55 Plasma reactions with particles
Plasma resonance see QC718.5.W3
718.5.P58 Plasmoids
718.5.Q17 Q-machines
718.5.R3 Radiation
718.5.S4 Sheaths
Including instability
Cf. TL3028 Space vehicle communication systems
Shock waves see QC718.5.W3
718.5.S6 Spectroscopy
718.5.S7 Stability
718.5.S78 Statistical behavior
Electricity and magnetism

Electricity

Plasma physics. Ionized gases

718.5.S83 Strongly coupled plasmas

Special topics, A-Z -- Continued

718.5.T5 Thermodynamics

Transport

Including diffusion, conductivity, heat conductance, velocity

718.5.T8 Turbulence

Velocity see QC718.5.T7

Waves

718.6 Study and teaching. Research

General works

718.612 Problems, exercises, examinations

Experiments

Laboratories

718.614 General works

718.615.A-Z Individual laboratories, A-Z

718.62 Technique

718.64 Instruments and apparatus

718.7 Handbooks, tables, formulas, etc.

718.8 Miscellaneous and curiosa

(721) Physics of electrons, protons, and other particles

see QC793+

Magnetism

Cf. QB462.8 Cosmic magnetic fields
Cf. QC176.8.M3 Solid-state physics
Cf. QC718.5.M36 Plasma physics
Cf. QC811+ Geomagnetism
Cf. QD591 Magnetochemistry

750 Periodicals, societies, congresses, serial publications

750.15 Collected works (nonserial)

750.3 Philosophy. Theory

750.4 History

751 Early works through 1800

General works, treatises, and textbooks

1801-1969

753.2 1970-

753.5 Popular works

753.7 Juvenile works

753.8 Recreations

Including amateur experiments

753.9 Addresses, essays, lectures

754 Special aspects of the subject as a whole

754.2.A-Z Special topics, A-Z

754.2.B35 Band theory
Electricity and magnetism

Magnetism

Special topics, A-Z -- Continued

754.2.E3 Electromechanical analogies
754.2.H9 Hysteresis
754.2.M3 Magnetic fields
    Cf. QC809.M25 Cosmic magnetism
754.2.M32 Magnetic force
754.2.M33 Magnetic induction
754.2.M333 Magnetic ions
754.2.M36 Magnetic structure
754.2.M34 Magnetization
754.2.M35 Magnetostatics
754.2.M36 Magnetostriction
754.2.P4 Permeability
754.2.P45 Photomagnetic effect
754.2.P6 Potential
754.2.Q34 Quantum theory
754.2.S8 Susceptibility
    Therapeutic use see RZ422

Study and teaching. Research

755 General works
755.2 Problems, exercises, examinations
755.3 Experiments
    Cf. QC753.8 Amateur experiments
755.4 Laboratory manuals

Magnetic measurements

755.6 General works
755.65 Units and standards

Instruments and apparatus

755.67 General works, treatises, and textbooks
755.675.H9 Hysteresigraph
755.7 Handbooks, tables, formulas, etc.
755.8 Miscellany and curiosa

Magnets

756.7 Periodicals, societies, congresses, serial publications
757 General works, treatises, and textbooks
757.5 Juvenile works
757.7 Addresses, essays, lectures
757.8 Bonded magnets
757.9 Permanent magnets
757.92 Wiggler magnets

Electromagnetism

    Cf. QH656 Magnetic fields (Cytology)

759.6 Periodicals, societies, congresses, serial publications
759.8 History
Electricity and magnetism
Magnetism

Electromagnetism -- Continued
760 General works, treatises, and textbooks
760.2 Juvenile works
760.25 Addresses, essays, lectures
760.4.A-Z Special topics, A-Z
760.4.M33 Magnetic monopoles
760.4.M37 Mathematics
Study and teaching. Research
760.5 General works
760.52 Problems, exercises, examinations
760.54 Data processing
760.6 Handbooks, tables, formulas, etc.
Electromagnets
Cf. QC787.C3 Calutrons
Cf. TJ1366 Lifting magnets
Cf. TK454.4.E5 Electrical engineering

761 General works
761.2 Juvenile works
761.3 Superconducting magnets
Paleomagnetism see QE501.4.P35

761.4 Ferrimagnetism
Cf. QC766.F3 Ferrites
761.5 Ferromagnetism. Antiferromagnetism
761.8 Thermomagnetism
Nuclear magnetism
761.9 General works
762 Nuclear magnetic resonance
762.6.A-Z Other special topics, A-Z
762.6.A25 Acoustic nuclear magnetic resonance
762.6.E45 Electron nuclear double resonance
762.6.G53 Giant nuclear magnetic resonance
762.6.H94 Hyperfine interactions
762.6.M34 Magnetic resonance imaging
762.6.R44 Relaxation
762.6.S64 Spin-lattice relaxation
762.6.S65 Spin waves
762.6.T73 Translational motion

Paramagnetism
762.9 General works
763 Electron paramagnetic resonance
764 Diamagnetism
Magnetic materials
Cf. TK454.4.M3 Electrical engineering
764.5 Periodicals, societies, congresses, serial publications
764.52 Dictionaries and encyclopedias
Electricity and magnetism
Magnetism
Magnetic materials -- Continued

765
General works
766.A-Z
Special magnetic materials, A-Z
    Alloys, Magnetic see QC766.M34
766.A4
Amorphous substances
766.C6
Cobalt
766.F3
Ferrites
    Fluids, Magnetic see QC766.M36
766.I7
Iron
766.M34
Magnetic alloys
766.M36
Magnetic fluids
766.M4
Metallic oxides
766.R3
Rare earths
766.T56
Thorium

Nuclear and particle physics. Atomic energy. Radioactivity
    Cf. QC170+ Constitution of matter. Atomic physics
    Cf. QD601+ Radiochemistry
    Cf. TK9001+ Nuclear engineering
    Cf. UG1282.A8 Atomic bombs

770
Periodicals, societies, congresses, serial publications
771
Collected works (nonserial)
772
Dictionaries and encyclopedias
    Communication of information
    General works
    Information services
History
773.A1
Development and projects leading to production of first
    atomic bombs
773.A2-Z
General works
773.3.A-Z
By region or country, A-Z
Biography
774.A2
Collective
774.A3-Z
Individual, A-Z
774.2
Directories
776
General works, treatises, and advanced textbooks
777
Elementary textbooks
778
Popular works
778.5
Juvenile works
780
Addresses, essays, lectures
782
Special aspects of the subject as a whole
782.5.A-Z
Special topics, A-Z
782.5.P4
Photography
    Cf. QC787.N78 Nuclear emulsions
783
Handbooks, tables, formulas, etc.
Data processing
Nuclear and particle physics. Atomic energy. Radioactivity

Data processing -- Continued

783.3 General works, treatises, and textbooks
783.4 Laboratory manuals
783.5 Pictorial works and atlases
783.8 Study and teaching
783.8 General works
783.85 Problems, exercises, examinations
784 Laboratory manuals
784.5 Atomic and nuclear measurements
    Including atomic units

Instruments and apparatus

785.5 Periodicals, societies, congresses, serial publications
785.7 Collected works (nonserial)
786 General works, treatises, and textbooks
786.2 Addresses, essays, lectures

Nuclear reactors for research. Reactor physics
    Cf. TK9202+ Nuclear reactor engineering

786.4 Periodicals, societies, congresses, serial publications
    History
786.42 General works
786.43.A-Z By region or country, A-Z
786.45 Directories
786.5 General works, treatises, and textbooks
786.55 Addresses, essays, lectures
786.6.A-Z Special topics, A-Z
    Accidents see TK9001+
786.6.C6 Computer programs
786.6.D4 Design and construction
    Fuel elements see TK9360+
786.6.K5 Kinetics
786.6.P68 Power distribution
786.6.S73 Statistical methods
786.6.T4 Thermal neutrons
    Cf. QC793.5.T42+ Elementary particle physics

Study and teaching. Research

786.7 General works
786.75 Experiments
786.8 Handbooks, tables, formulas, etc.
787.A-Z Other instruments, A-Z
787.B4 Betatrons
    Bevatron see QC787.S9
787.B8 Bubble chambers
787.C3 Calutrons
787.C56 Cloud chambers
787.C58 Coincidence circuits
    Cold cathode tubes see TK7871.84.C6
Nuclear and particle physics. Atomic energy. Radioactivity
Instruments and apparatus
Other instruments, A-Z

787.C59  Colliders
787.C6   Counters
         Cf. TK9180 Nuclear engineering
787.C8   Cyclotrons
787.D35  Damping rings
787.D74  Drift chambers
787.E37  Electret ionization chambers
787.E39  Electron accelerators
787.E4   Electrostatic accelerators
787.E42  Electrostatic analyzers
787.F75  Fricke dosimeters
787.G32  Gamma ray detectors
787.G34  Gas calorimeters
787.G4   Geiger-Müller counters
787.H53  High-brightness accelerators
787.H54  High pressure ionization chambers
787.I6   Ionization chambers
787.K55  Klystrons
787.L5   Linear accelerators
787.L53  Linear colliders
787.M3   Magnetic analyzers
787.N78  Nuclear emulsions
787.N83  Nuclear track detectors
787.O6   Optical instruments
787.P3   Particle accelerators (General)
         Cf. TK9340 Nuclear engineering
787.P34  Particle analyzers
         Photoelectric multipliers see TK8314
787.P46  Photon detectors
787.P69  Proportional counters
787.P7   Proton accelerators
787.P73  Proton antiproton colliders
         Including proton synchrotron colliders
787.P8   Pulse height analyzers
787.R43  Recirculating electron accelerators
787.S3   Scanning systems
787.S34  Scintillation counters
787.S4   Sector focused cyclotrons
787.S45  Self-quenching counters
787.S55  Spark chambers
787.S6   Spectrometer
787.S8   Storage rings
787.S83  Supercolliders
         Including Superconducting Super Collider
Nuclear and particle physics. Atomic energy. Radioactivity

Instruments and apparatus

Other instruments, A-Z -- Continued

787.S85 Synchrocyclotrons
787.S9 Synchrotrons
787.T35 Targets
787.V3 Van de Graaff generators
787.V45 Vertex detectors

Research
Including laboratories and projects

788 General works
789.2.A3-Z By region or country, A-Z
Subarrange each country by Table Q6

Nuclear fission

789.7 Periodicals, societies, congresses, serial publications
790 General works, treatises, and textbooks
790.3 Addresses, essays, lectures
790.4.A-Z Special topics, A-Z
790.4.A6 Angular distribution
Delayed neutrons see QC793.5.D42+
790.4.E6 Energy loss
790.4.F5 Fission products (General)
Neutron transport theory see QC793.3.T7
790.4.P4 Photofission
790.4.P5 Pile theory
790.4.S9 Symmetrical fission
790.6 Instruments and apparatus
790.8.A-Z Fission of specific elements, A-Z (Table Q1)

Nuclear fusion
Cf. UG1282.A8 Hydrogen bomb

790.95 Periodicals, societies, congresses, serial publications
790.97 Collected works (nonserial)
791 General works, treatises, and textbooks
791.4 Popular works
791.5 Juvenile works
791.6 Addresses, essays, lectures

Controlled fusion

791.7 Periodicals, societies, congresses, serial publications
791.72 Collected works (nonserial)
791.725 Directories
791.73 General works, treatises, and textbooks
791.735 Popular works
791.74 Addresses, essays, lectures
Study and teaching. Research
791.745 General works
By region or country
United States
Nuclear and particle physics. Atomic energy. Radioactivity

Nuclear fusion

Controlled fusion

Study and teaching. Research

By region or country

United States -- Continued

791.75
General works

791.755.A-Z
By region or state, A-Z

791.76.A-Z
Other regions or countries, A-Z

791.77.A-Z
Special devices, A-Z

791.77.S7
Stellarators

791.775.A-Z
Special topics, A-Z

791.775.C64
Cold fusion

Inertial confinement fusion see QC791.775.P44

791.775.L37
Laser fusion

791.775.P44
Pellet fusion. Inertial confinement fusion

791.8.A-Z
Other special topics, A-Z

Neutron transport theory see QC793.3.T7

Thermonuclear reactions see QC791.7+

Atomic energy

Cf. BR115.A83 Moral and religious aspects
Cf. HD9698+ Economic aspects
Cf. QC913.2.A8 Meteorological aspects
Cf. TK9001+ Atomic power

791.9
Periodicals, societies, congresses, serial publications

791.915
Collected works (nonserial)

791.92
Dictionaries and encyclopedias

Communication of information

791.93
General works

791.94
Information services

Nuclear regulatory commissions

791.948
General works

791.95.A-Z
By region or country, A-Z

791.96
History

791.98
Directories

792
General works, treatises, and textbooks

792.4
Popular works

792.5
Juvenile works

792.6
Addresses, essays, lectures

792.7
Special aspects of the subject as a whole

Including peaceful uses of atomic energy

Study and teaching. Research

792.72.A-.Z8
General works

792.72.Z9
Catalogs of audiovisual materials

By region or country

United States

792.74
General works
Nuclear and particle physics. Atomic energy. Radioactivity

Atomic energy
Study and teaching. Research
By region or country
United States -- Continued
792.76.A-Z
By region or state, A-Z
792.78.A-Z
Other regions or countries, A-Z
Laboratories
792.79
General works
792.8.-Z
By region or country, A-Z
Subarrange each country by Table Q6

Elementary particle physics
Cf. QC170+ Structure of matter and other theories
793
Periodicals, societies, congresses, serial publications
793.12
Collected works (nonserial)
793.13
Philosophy
793.15
Classification
793.16
History
793.2
General works, treatises, and advanced textbooks
793.24
Elementary textbooks
793.26
Popular works
793.27
Juvenile works
793.28
Addresses, essays, lectures
793.29
Special aspects of the subject as a whole
793.3.A-Z
Special topics, A-Z
793.3.A4
Algebra of currents
Cf. QC174.52.A43 Quantum field theory
Algebraic geometry see QC793.3.G46
793.3.A5
Angular momentum
793.3.B4
Particle beams
793.3.B5
Binding energy. Nuclear forces
793.3.B6
Bootstrap theory
793.3.C53
Charm
793.3.C54
Chirality
793.3.C56
Collective excitations
793.3.C57
Color confinement
793.3.C58
Conservation laws
793.3.C6
Cosmic ray and ionospheric influences
793.3.C67
Coupling constants
793.3.D4
Decay. Lifetime
793.3.D43
Degree of freedom
793.3.D5
Diffraction
793.3.D55
Diffusion
793.3.D9
Dynamics
793.3.E4
Electrodynamics
793.3.E45
Electromagnetism
Electronic data processing see QC793.47.E4
Nuclear and particle physics. Atomic energy. Radioactivity
Elementary particle physics
Special topics, A-Z -- Continued

793.3.E5
   Energy ranges
   Energy spectra see QC793.5.A22+
   Exciton theory see QC794.6.E9

793.3.E93
   Exotic nuclei

793.3.F5
   Flavor theories
   Flavor see QC793.3.Q37

793.3.G38
   Gauge fields
   Including gauge theories

793.3.G46
   Geometry, Algebraic

793.3.H44
   Helicity

793.3.H5
   High energy physics
   Invariance see QC793.3.S9
   Ionospheric influences see QC793.3.C6
   Isospin see QC793.3.S6

793.3.K5
   Kinematics

793.3.L53
   Lie algebras
   Lifetime see QC793.3.D4
   Magnetic dipole moment see QC793.3.S6

793.3.M3
   Magnetic fields

793.3.M36
   Matrix theories
   Molecules, Nuclear see QC793.3.N82
   Momentum see QC793.3.S6
   Nuclear cluster theory see QC793.3.S8
   Nuclear emulsions see QC793.47.P4
   Nuclear forces see QC793.3.B5

793.3.N8
   Nuclear matter
   Nuclear models see QC793.3.S8

793.3.N82
   Nuclear molecules

793.3.N83
   Nuclear orientation see QC793.3.S6
   Nuclear shapes
   Particle accelerators see QC787.P3
   Particle beams see QC793.3.B4
   Phase shift see QC794.6.S3
   Photography. Nuclear emulsions see QC793.47.P4
   Polarization see QC794.6.S3
   Problem of many bodies see QC174.17.P7

793.3.Q35
   Quantum chromodynamics

793.3.Q37
   Quantum flavor dynamics
   Quantum theory see QC174.45+

793.3.R4
   Regge trajectories
   Cf. QC174.17.G7 Group theory applied to quantum theory
   Relaxation see QC762.6.R44
   Renormalization theory see QC174.17.R46

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Nuclear and particle physics. Atomic energy. Radioactivity

Elementary particle physics

Special topics, A-Z -- Continued

Resonance. Resonance integral see QC794.6.R4
Scattering see QC794.6.S3
Shapes, Nuclear see QC793.3.N8

793.3.S57
Space and time

Cf. QC173.59.S65 Relativity physics
Spectroscopy see QC454.N8

793.3.S6
Spin. Moments. Magnetic dipole moment. Nuclear orientation

793.3.S77
Statistical mechanics

793.3.S8
Structure

Including nuclear models and nuclear cluster theory

793.3.S9
Symmetry. Invariance

Cf. QC174.17.S9 Quantum theory

793.3.T67
Tracks

Transitions see QC454.N8

793.3.T7
Transport theory

793.3.V5
Violations

793.3.W3
Wave mechanics

793.3.W4
Weight diagrams

Study and teaching. Research

793.4
General works

793.412
Experiments

793.42
Problems, exercises, examinations

Technique

793.46
General works

793.47.A-Z
Special, A-Z

793.47.E4
Electronic data processing

793.47.P4
Photography. Nuclear emulsions

793.47.S83
Statistical methods

Instruments and apparatus see QC785.5+

793.49
Miscellany and curiosa

793.5.A-Z
Special nuclear and subnuclear particles, antiparticles, and families of particles, A-Z

793.5.A22-.A229
Alpha particles. Alpha rays (Table Q2)

793.5.A25-.A259
Anyons (Table Q2)

793.5.B32-.B329
Baryons (Table Q2)

793.5.B42-.B429
Beta particles. Beta rays (Table Q2)

793.5.B62-.B629
Bosons (Table Q2)

Including intermediate, W, and Z bosons

793.5.C64-.C649
Cold neutrons (Table Q2)

Including ultracold neutrons

793.5.D42-.D429
Delayed neutrons (Table Q2)

793.5.D442-.D4429
Delayed protons (Table Q2)

793.5.D482-.D4829
Deuterons (Table Q2)
Nuclear and particle physics. Atomic energy. Radioactivity
Elementary particle physics
Special nuclear and subnuclear particles, antiparticles, and families of particles, A-Z -- Continued

793.5.E62-.E629  Electrons (Table Q2)
   Including synchrotron radiation
   Cf. QC449.3 Electron holography

793.5.F32-.F329  Fast neutrons (Table Q2)
793.5.F42-.F429  Fermions (Table Q2)
793.5.G32-.G329  Gamma rays (Table Q2)
793.5.G552-.G5529  Gluons (Table Q2)
793.5.H32-.H329  Hadrons (Table Q2)
   Cf. QC794.8.S8 Strong interactions

793.5.H34-.H349  Heavy leptons (Table Q2)
793.5.H42-.H429  Hyperons (Table Q2)
   Including sigma particles and Y-particles

793.5.L42-.L429  Leptons (Table Q2)
   Cf. QC793.5.H34+ Heavy leptons
   Cf. QC794.8.W4 Weak interactions

793.5.M32-.M329  Magnons (Table Q2)
793.5.M42-.M429  Mesons (Table Q2)
   Including kaons, muons, and pions
   Muons see QC793.5.M42+

793.5.N42-.N429  Neutrinos (Table Q2)
793.5.N462-.N4629  Neutrons (Table Q2)
793.5.N82-.N829  Nucleons (Table Q2)
793.5.N862-.N8629  Nuclides (Table Q2)
   Phonons see QC176.8.P5

793.5.P42-.P429  Photons (Table Q2)
   Cf. QC176.8.P6 Polaritons
   Cf. QC794.8.E4 Electromagnetic interactions
   Pions see QC793.5.M42+
   Polarons see QC176.8.P62

793.5.P58-.P589  Pomerons (Table Q2)
793.5.P62-.P629  Positrons (Table Q2)
793.5.P642-.P6429  Prompt neutrons (Table Q2)
793.5.P72-.P729  Protons (Table Q2)
793.5.Q252-.Q2529  Quarks (Table Q2)
793.5.Q32-.Q329  Quasi-particles (Table Q2)
   Sigma particles see QC793.5.H42+

793.5.S62-.S629  Slow neutrons (Table Q2)
793.5.S72-.S729  Strange particles (Table Q2)
793.5.T32-.T329  Tachyons (Table Q2)
793.5.T37-.T379  Thermal electrons (Table Q2)
793.5.T42-.T429  Thermal neutrons (Table Q2)
Nuclear and particle physics. Atomic energy. Radioactivity

Elementary particle physics

Special nuclear and subnuclear particles, antiparticles, and families of particles, A-Z -- Continued

W bosons see QC793.5.B62+
Y-particles see QC793.5.H42+
Z bosons see QC793.5.B62+

Nuclear interactions

Cf. QC454.N8 Nuclear spectroscopy

793.9 Periodicals, societies, congresses, serial publications
793.95 Collected works (nonserial)
794 General works, treatises, and textbooks
794.5 Addresses, essays, lectures
794.6.A-Z Special topics, A-Z
794.6.A5 Angular distribution. Angular correlations
794.6.C58 Coherence
794.6.C6 Collisions
794.6.C7 Cross section of interactions
Decay see QC794.6.R3
794.6.E9 Excitation

Cf. QC795.8.E5 Energy levels

794.6.F4 Feynman diagrams
794.6.F65 Form factor
794.6.G7 Grand unified theories
794.6.I5 Internal conversion
794.6.I8 Isotone shift. Isotope shift
794.6.K5 Kinematics
794.6.M6 Moments
794.6.M85 Multiplicity
Polarization see QC794.6.S3

794.6.R25 Radiative capture
794.6.R3 Radioactivity. Decay
794.6.R4 Resonance. Resonance integral
794.6.S3 Scattering

Including elastic scattering, inelastic scattering, polarization, etc.

794.6.S75 Standard model
794.6.S8 Stopping power
794.6.S85 String models

Including superstring theories

Transitions see QC454.N8

794.8.A-Z Special types of interactions, A-Z
794.8.D57 Direct
794.8.E35 Effective
794.8.E4 Electromagnetic

Cf. QC793.5.P42+ Photons
794.8.E44 Electroweak
Nuclear and particle physics. Atomic energy. Radioactivity

Nuclear interactions

Special types of interactions, A-Z -- Continued

794.8.E93    Exclusive
794.8.G7     Gravitational
794.8.H4     Heavy ion induced
                Including heavy ion collisions
794.8.H5     High energy
                Cf. QC793.3.H5 High energy physics
794.8.I52    Inclusive
794.8.L69    Low-energy nuclear reactions
794.8.P4     Photonuclear
                Cf. QC715+ Photoelectricity
794.8.S7     Spallation
794.8.S8     Strong
                Cf. QC793.5.H32+ Hadrons
794.8.W4     Weak
                Cf. QC793.5.L42+ Leptons

Radioactivity and radioactive substances

Including ionizing radiation
794.8.V3     Ionizing radiation
794.8.V7     Radiation physics
794.96       Collectors
794.96       Dictionaries
794.97       Encylopedias
794.98       History
795          General works, treatises, and textbooks
795.26       Popular works
795.27       Juvenile works
795.28       Addresses, essays, lectures
795.3        Special aspects of the subject as a whole
795.32.A-Z   Special topics, A-Z
795.32.R3    Radiation dosimetry in physics
795.32.S3    Safety measures for physicists
                Cf. RA1231.R2 Toxicology
                Cf. TK9152+ Nuclear engineering

Study and teaching. Research

795.34       General works
795.36       Experiments
795.38       Laboratory manuals
Laboratories see QD604.8+

Technique
                Cf. TK9151.4+ Radiation environment procedures
Nuclear and particle physics. Atomic energy. Radioactivity
Radioactivity and radioactive substances
Technique -- Continued

795.4 General works
795.42 Measurement of radioactivity and ionizing radiation
795.5 Instruments and apparatus (General)
    For individual instruments see QC785.5+
795.52 Handbooks, tables, formulas, etc.
795.55.A-Z Special types of radioactivity, A-Z
795.55.I5 Induced radioactivity

Radioactive substances and radioisotopes
    Cf. TK9400+ Nuclear engineering
795.6 Periodicals, societies, congresses, serial publications
795.64 Dictionaries and encyclopedias
795.7 General works, treatises, and textbooks
795.74 Juvenile works

Study and teaching. Research
795.76 General works
795.77 Experiments
795.78 Laboratory manuals
795.8.A-Z Special topics, A-Z
    Prefer classification by specific substance in QC796
795.8.D4 Decay
795.8.E5 Energy levels
795.8.F5 Fission products
795.8.H3 Half-life
795.8.I5 Internal conversion
    Isobars, Nuclear see QC795.8.N8
795.8.N8 Nuclear isomers. Nuclear isobars
795.8.R3 Radionuclides
795.8.S6 Spectra
    For spectra of specific substances see QC462+
    Standards see TK9400+
795.8.T45 Thermal properties
    Transportation see HE199.5.R3+
796.A-Z Special radioactive substances and radioisotopes, A-Z
    (Table Q1)
796.2 Superheavy elements
    Cf. QD172.S93 Inorganic chemistry

Applications
    For applications in special fields, see the field, e.g. QH324.3,
    Tracers in biological research; RM858, Radioisotopes in
    therapeutics; TK9400-9401, Radioactive substances in
    industry

798.A1 General works, treatises, and textbooks
798.A2-Z Individual, A-Z
798.D3 Dating
Nuclear and particle physics. Atomic energy. Radioactivity
  Radioactivity and radioactive substances
    Applications
      Individual, A-Z -- Continued
    Tracers
  Geophysics. Cosmic physics
    Cf. GB5000+ Natural disasters
  801 Periodicals, societies, congresses, serial publications
  801.3 International Geophysical Committee. International
    Geophysical Year
  801.4 International Years of the Quiet Sun
  801.5 Collected works (nonserial)
  801.9 Dictionaries and encyclopedias
    Observations
  802.A1 General works, treatises, and textbooks
  802.A2-Z By name of issuing observatory, A-Z
    Prefer QC803
  803.A-Z By region or country, A-Z
  804 History
    Biography
  805.A2 Collective
  805.A3-Z Individual, A-Z
  806 General works, treatises, and textbooks
  806.4 Juvenile works
  806.6 Addresses, essays, lectures
  807 Special aspects of the subject as a whole
    Study and teaching. Research
  807.5 General works
  807.52 Problems, exercises, examinations
  807.6.A-Z By region or country, A-Z
    Observatories
  808.A2 General works
  808.A5-Z By region or country, A-Z
    Under each country:
      .x General works
      .x2A-.x2Z Individual observatories. By name, A-Z
  808.5 Technique. Instructions for observers
  808.6 Data processing
  808.7 Instruments and apparatus
  808.8 Handbooks, tables, formulas, etc.
  809.A-Z Special topics, A-Z
  809.A25 Acoustic phenomena
  809.C6 Cosmic noise
    Earth radiation see QC809.T4
  809.E15 Earth resistance
  809.E2 Earth tides
Geophysics. Cosmic physics
   Special topics, A-Z -- Continued

809.E5          Elastic waves
809.E55         Electrodynamics
                 Cf. QB460+ Astrophysics
809.E6          Energy budget. Heat budget
809.F5          Fluid dynamics
                 Heat budget see QC809.E6
809.M25         Magnetic fields. Geomagnetic micropulsations
809.M3          Magnetohydrodynamics
809.M35         Magnetosphere. Magnetopause
809.M37         Mathematics
                 Nuclear astrophysics see QB463+
                 Nuclear geophysics see QE501.4.N9
809.P3          Paleogeophysics
809.P5          Plasmasphere. Space plasmas
809.R3          Radiation
                 Solar wind see QB529+
                 Space plasmas see QC809.P5
809.S67         Spectral theory
809.T38         Terrestrial heat flow
809.T4          Terrestrial radiation
809.V3          Van Allen radiation belts

Geomagnetism
   Cf. QC750+ Magnetism
   Cf. QE501.4.P35 Paleomagnetism

811          Periodicals, societies, congresses, serial publications
811.15       Collected works (nonserial)
813          History
814          Early works through 1800
                 General works, treatises, and textbooks
815          1801-1969
815.2        1970-
815.5        Juvenile works
815.7        Addresses, essays, lectures
816          Special aspects of the subject as a whole

Observatories
818.A2        General works
818.A5-Z      By region or country, A-Z
                 Under each country:
                 .x        General works
                 .x2A-.x2Z Individual observatories. By name, A-Z

819          Instruments and apparatus
                 Including magnetometer
820          Technique. Instruction for observers
820.6        Data processing
Geomagnetism -- Continued

821       Handbooks, tables, formulas, etc.
822       Maps and mapping
  Including construction, use, and interpretation of maps
Magnetic surveys
  Geographic areas below are not subarranged by country
825          General works
825.1          North America
825.2          Mexico, Central America, and West Indies
825.3          South America
825.4          Europe
825.5          Asia
825.6          Africa
825.7          Australia
825.75          New Zealand
825.8          Arctic regions
825.9          Antarctica
826.A-Z          Oceanic areas, A-Z
Geomagnetic field (Analysis and theory)
827          General works
828          Secular variation
Magnetic observations
830.A-Z          General works. By name of issuing observatory, A-Z
831          Diurnal variations
833          Other periodic variations
835          Magnetic disturbances
  Including magnetic storms
Geomagnetism and related aspects
836          Sunspot periods
837          Eclipses
839          Meteorological phenomena
841          Geological structure
843          Earthquakes
845          Earth currents
849          Deviation of the magnetic compass and other magnetic
  instruments. Magnetism of ships and aircraft
Cf. TL589.2.C6 Aeronautical instruments
Cf. VK577 Nautical instruments
Meteorology. Climatology
Including the earth's atmosphere and atmospheric physics
For works on the composite generalization of weather
conditions of specific geographic areas during a
specific period of time with reference to average
conditions and their variability see QC980+
Cf. GB2801+ Hydrometeorology
Cf. N72.M48 Art and meteorology
Cf. QB603.A85 Planetary meteorology
Cf. S600+ Agricultural meteorology
Cf. SD390.5+ Forest meteorology
Cf. SH343.3 Fishery meteorology
Cf. TA197+ Engineering meteorology
Cf. TL556+ Aeronautical meteorology
Cf. UG467 Military meteorology

851 Periodicals, societies, congresses, serial publications
852 Collected works (nonserial)
854 Dictionaries and encyclopedias
854.15 Communication of meteorological information
For computer network resources see QC866.5.C67
For exchange of meteorological information see
QC866.5.E93

854.2 Nomenclature, terminology, notation, abbreviations
History
855 General works
857.A-Z By region or country, A-Z
Biography
858.A2 Collective
858.A3-Z Individual, A-Z

859 Early works through 1800
General works, treatises, and advanced textbooks
861 1801-1969
861.2 1970-2000
861.3 2001-
863 Elementary textbooks
863.4 Popular works
Including works for hobbyists
863.5 Juvenile works
864 Handbooks, tables, formulas, etc.
Cf. QC871.4 Observers' manuals
Cf. QC873 Computation tables
865 Addresses, essays, lectures
866 Special aspects of the subject as a whole
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866.5.G46  Geographic information systems
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            Cf. QC875.2.A+ International projects, programs, etc.
866.5.P4   Photography (General)

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Including mechanics and thermodynamics of the atmosphere (combined)

Cf. QC930.5+ Wind

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921.6.E4
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940.A2-Z
By region or country, A-Z

940.A8
North Atlantic Ocean

Storms. Cyclones

Cf. GC225+ Storm surges
Cf. HV635.5+ Disaster relief and socioeconomic consequences
Cf. QC926.3+ Snow. Ice. Blizzards
Cf. QC968+ Thunderstorms
Cf. TL557.57 Aeronautical meteorology

940.6
Periodicals, societies, congresses, serial publications

941
General works, treatises, and textbooks

941.3
Juvenile works

941.8
Miscellany and curiosa

Theoretical aspects

942
General works

943
Application to navigation

943.5.A-Z
By region or country, A-Z

Hurricanes and other cyclonic storms

944
General works, treatises, and textbooks

944.2
Juvenile works

945
By geographical location

945
Atlantic Ocean and West Indies
Including tropical cyclones, northeaster storms

947
India, Pakistan, and the Indian Ocean

948
China Seas and Pacific Ocean. Far East
Including typhoons

951
Instruments and apparatus
Including barocyclonometer

Tornadoes

955
General works

955.2
Juvenile works

955.5.A-Z
By region or country, A-Z

957
Waterspouts

958
General works

959.A-Z
By region or country, A-Z
Meteorology. Climatology -- Continued

Electrical phenomena in the atmosphere

Cf. QC801+ Geophysics. Cosmic physics
Cf. QC972.6+ Radio meteorology

960.5 Periodicals, societies, congresses, serial publications
961 General works, treatises, and textbooks
961.2 Addresses, essays, lectures
961.5 Technique. Instructions for observers
962 Instruments and apparatus
963 Observations of potential variation

Lightning (General)

Cf. GR640 Folklore
Cf. TH9057+ Protection of buildings from lightning

966 General works
966.5 Juvenile works
966.7.A-Z Special topics, A-Z
  Arresters see TK3248
966.7.A84 Atmospheric ionization
966.7.B3 Ball lightning
966.7.D5 Discharge. Flash

Thunderstorms (General)

968 General works
968.2 Juvenile works
969 Miscellaneous electrical phenomena

Auroras

Cf. QB524+ Solar activity
Cf. QC835 Magnetic disturbance
Cf. QC976.A3 Airglow

970 Periodicals, societies, congresses, serial publications
971 General works, treatises, and textbooks
971.3 Pictorial works and atlases
971.4 Juvenile works
971.5 Addresses, essays, lectures

Observations

971.7.A1 General works, treatises, and textbooks
971.7.A2-Z By region or country, A-Z
972.A-Z Special topics, A-Z
972.L8 Luminescence
972.L85 Luminosity
972.P4 Photography
972.S6 Spectra
972.5.A-Z Special types of aurora, A-Z
972.5.A8 Australis
972.5.B6 Borealis
  Northern lights see QC972.5.B6
  Polaris see QC972.5.B6
972.5.R3 Radio auroras
Meteorology. Climatology -- Continued

Radio meteorology. Microwave meteorology

972.6  Periodicals, societies, congresses, serial publications
972.7  Collected works (nonserial)
973   General works, treatises, and textbooks
973.2  Addresses, essays, lectures
973.3  Instruments and apparatus
973.4.A-Z  Special topics, A-Z
973.4.A85  Atmospherics
973.4.C4   Chorus. Dawn chorus
973.4.I6   Ionospheric radio waves
            Including absorption, propagation, etc.
973.4.M33  Magnetospheric radio waves
973.4.R3   Radio auroras see QC972.5.R3
973.4.R35  Radio refractivity
973.4.T76  Tropospheric radio waves
            Including absorption, propagation, etc.
973.4.V2   VLF emissions, propagation, etc.
973.4.W5   Whistlers
973.45   Periodicals, societies, congresses, serial publications
973.5   General works, treatises, and textbooks
973.6   Addresses, essays, lectures
         Radar stations
973.62.A1  General works
973.62.A2-Z  By region or country, A-Z
973.7   Instruments and apparatus
            Including rawinsondes
973.8.A-Z  Special topics, A-Z
973.8.E3   Echoes
973.8.R4   Refraction
973.8.W4   Weather radar networks

Meteorological optics

974.5  Periodicals, societies, congresses, serial publications
974.6  Collected works (nonserial)
         General works, treatises, and textbooks
975   1801-1969
975.2  1970-
975.3   Juvenile literature
975.6   Addresses, essays, lectures
975.8   Handbooks, tables, formulas, etc.
         Observations
975.9.A1  General works, treatises, and textbooks
975.9.A2-Z  By region or country, A-Z
976.A-Z  Special topics, A-Z
Meteorology. Climatology
Meteorological optics
Special topics, A-Z -- Continued

976.A3  
Airglow
976.C6  
Coloration of the sky
(976.C7)  
Counterglow
  see QB761
  Gegenschein see QB761
976.H15  
Halos
976.L36  
Laser beam propagation
976.M6  
Mirages
976.N5  
Night sky
976.N6  
Noctilucent clouds
976.P7  
Polarization
976.R15  
Rain band spectrum
976.R2  
Rainbow
976.R4  
Atmospheric refraction
976.S3  
Scattering
976.T6  
Transmission of the atmosphere
976.T7  
Transparency of the atmosphere
976.T8  
Turbidity
976.T9  
Twilight phenomena
976.U4  
Ultraviolet rays
976.V5  
Visibility
  Cf. TL557.V5 Aeronautical meteorology

Climatology and weather
  Class here works on the composite generalization of weather
  conditions of specific geographic areas during a specific
  period of time with reference to average conditions and
  their variability
  Cf. BF353 Psychological aspects
  Cf. GF71 Human ecology
  Cf. NA2541 Architecture and climate
  Cf. QC884+ Paleoclimatology
  Cf. QH543+ Bioclimatology
  Cf. RA791+ Medical climatology
  Cf. S600+ Agricultural climatology
  Cf. TA198 Industry and weather
  Cf. TH7015 Heating and ventilation
  Cf. TL556+ Aviation climatology

980  
Periodicals, societies, congresses, serial publications
980.15  
Collected works (nonserial)
Dictionaries and encyclopedias see QC854
980.4  
Classification of climate
  Including indexes
  Biography see QC858.A2+
981  
General works, treatises, and textbooks
Meteorology. Climatology

Climatology and weather -- Continued

981.2 Popular works
981.3 Juvenile works
981.4 Addresses, essays, lectures
981.45 Special aspects of the subject as a whole
981.5 Study and teaching, Research
981.6 Instruments and apparatus
   Including frigorimeters
981.7.A-Z Special types of climatology, A-Z
981.7.C7 Cryptoclimatology
981.7.D94 Dynamic climatology
981.7.M3 Macroclimatology
981.7.M4 Mesoclimatology
981.7.M5 Microclimatology
981.7.S8 Synoptic climatology
981.7.T64 Topoclimatology
981.7.U7 Urban climatology
981.8.A-Z Special topics, A-Z
981.8.A5 Air masses in weather situations
   Including cold and heat waves, etc.
(981.8.C5) Climatic changes
   see QC902.8+
981.8.C53 Climatic extremes
981.8.C65 Continentality
981.8.G56 Global warming
   Heat waves see QC981.8.A5
981.8.I23 Ice sheets and climate. Glaciers and climate
981.8.S9 Sultriness
981.8.V65 Volcano effect on weather
981.8.Z6 Zones of climate

Geographic divisions
   Including observations, weather reports, charts, etc., of
   special regions

International observations
982 General works
982.5.A-Z International areas not wholly within the divisions
   below. By name, A-Z
982.5.C64 Columbia River Watershed
982.5.D48 Developing countries
982.5.G7 Great Britain's colonies
982.5.G75 Great Lakes Region
Meteporology. Climatology
Climatology and weather
Geographic divisions
International observations
International areas not wholly within the divisions
below. By name, A-Z -- Continued

982.5.N67                   Northern Hemisphere
982.5.S68                   Southern Hemisphere
982.8                   North America (General)
         United States
983                   General works
984.A-Z                  By region or state, A-Z
                           Subarrange each state by Table Q4
         Canada
985                   General works
985.5.A-Z                  By region or province, A-Z
                           Subarrange each province by Table Q4
         Mexico and Central America
986.A1                   General works
986.A3-Z                  By country, island, or region, A-Z
                           Subarrange each country or island by Table Q4
         West Indies
987.A1                   General works
987.A3-Z                  By country, island, or region, A-Z
                           Subarrange each country or island by Table Q4
         South America
988.A1                   General works
988.A3-Z                  By country, island, or region, A-Z
                           Subarrange each country or island by Table Q4
         Europe
989.A1                   General works
989.A3-Z                  By country, island, or region, A-Z
                           Subarrange each country or island by Table Q4
         Asia
990.A1                   General works
990.A3-Z                  By country, island, or region, A-Z
                           Subarrange each country or island by Table Q4
         Africa
991.A1                   General works
991.A3-Z                  By country, island, or region, A-Z
                           Subarrange each country or island by Table Q4
         Australia
992.A1                   General works
992.A3-Z                  Local, A-Z
         New Zealand
992.5.A1                   General works
992.5.A3-Z                  Local, A-Z
Meteorology. Climatology
Climatology and weather
Geographic divisions -- Continued

993.A-Z  Pacific and other oceanic islands. By island or group of islands, A-Z
993.5    Tropics (General). Tropical climatology and meteorology
993.6    Mountains (General). Mountain climatology and meteorology
993.7    Arid regions. Deserts (General). Arid zone climatology
         Temperate zones. Temperate climate
         For works on temperate climate in specific geographic regions, see QC982-QC994.9, Land; QC994.1-994.9, Oceans
993.75   General works
993.8    Mediterranean climate (General)
         Class here works on Mediterranean climate regions in general. For works on Mediterranean climate in specific geographic regions, see QC983-QC993; QC994.3
993.83   Periodicals, societies, congresses, serial publications
993.84   Observers' manuals. Handbooks, tables, formulas, etc.
         Weather services see QC875.A2+
994      General works, treatises, and textbooks
         By region
994.1    Atlantic Ocean (General)
994.2    Atlantic, North
994.3    Mediterranean Sea
994.4    Atlantic, South
994.5    Indian Ocean
994.55   Pacific Ocean (General)
994.6    Pacific, North
994.7    Pacific, South
         Polar climatology and meteorology
         General works
994.75   Periodicals, societies, congresses, serial publications
994.8    Arctic
994.9    Antarctic
         Weather forecasting
         Including analyses and forecasts
         Cf. QC875.A2+ Weather services
         Cf. QC877.5 Weather broadcasting
994.95   Periodicals, societies, congresses, serial publications
995      General works, treatises, and textbooks
995.3    Pictorial works and atlases
995.4    Popular works

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Meteorology. Climatology
Climatology and weather
Weather forecasting -- Continued

995.43 Juvenile works
995.45 Addresses, essays, lectures
995.46 Study and teaching. Research
Technique (General)
Including graphical technique
995.48 General works
995.485 Observers' manuals
Types of weather forecasting
995.5 Hydrodynamic
996 Numerical
996.5 Statistical
997 Long-range
997.5 Short-range
997.75 Nowcasting
998 Weather lore
Cf. GR635+ Weather lore (as folklore)
999 Weather almanacs and miscellany
Chemistry
For applications of chemistry in special fields, see the field, e.g.
RS402+ Medical and pharmaceutical chemistry; S583+
Agricultural chemistry
For chemical technology, including chemical engineering see
TP1+

1
Periodicals, societies, congresses, serial publications
Museums
2.A1
General works
2.A2-Z
By region or country, A-Z
Subarrange each country by Table Q5

3
Collected works (nonserial)

4
Encyclopedias

5
Dictionaries

6
Philosophy

7
Nomenclature, terminology, notation, abbreviations
Communication of chemical information
8
General works
8.3
Information services
8.5
Chemical literature

9
Abstracting and indexing
9.15
Language. Authorship
9.2
Translating. Translating services
9.3
Computer network resources
Including the Internet

11
History
13
History of alchemy
14
Early works through 1800
15
1801-
18.A-Z
By region or country, A-Z

20
Women in chemistry. Women chemists
For biography see QD21+

Biography of chemists
Cf. QD24.A2+ Alchemists
Cf. QD903.5+ Crystallographers
21
Collective
22.A-Z
Individual, A-Z
e.g.
22.C8
Curie, Marie and Pierre

23
Directories
Alchemy
Cf. BR115.A57 Alchemy and Christianity
23.3
Periodicals, societies, congresses, serial publications
23.4
Collected works (nonserial)
23.5
Dictionaries and encyclopedias
History see QD13
Alchemy -- Continued

Biography

24.A2 Collective
25 Early works through 1800
26 General works, treatises, and textbooks
26.5.A-Z Special topics, A-Z
26.5.A4 Alkahest. Universal solvent
26.5.E4 Elixer of life
  Philosopher’s stone see QD25
27 Early works through 1761
  General works, treatises, and advanced textbooks
28 1761-1860
31 1861-1969
31.2 1970-2000
31.3 2001-
33 Elementary textbooks
  To 2000
33.2 2001-
35 Juvenile works
37 Popular works
38 Recreations, home experiments, etc.
39 Addresses, essays, lectures
39.2 Special aspects of the subject as a whole
39.3.A-Z Special topics, A-Z
39.3.C6 Computer programs
39.3.E4 Electromechanical analogies
39.3.E46 Electronic data processing. Cheminformatics
  Cf. RS418 Pharmaceutical chemistry
39.3.F33 Factor analysis
39.3.G73 Graph theory
39.3.M3 Mathematics
39.3.P45 Phlogiston
39.3.S55 Simulated annealing
39.3.S67 Spreadsheets
39.3.S7 Statistical methods
39.3.W37 Water
39.5 Chemistry as a profession. Vocational guidance
39.7 Social aspects
  Study and teaching. Research
40 General works
41 Outlines, syllabi
42 Problems, exercises, examinations
  For programmed textbooks see QD28+
43 Experiments
  Cf. QD38 Home experiments
45 Laboratory manuals
Study and teaching. Research -- Continued

By region or country

United States
47
   General works
47.5.A-Z
   By region or state, A-Z
      Subarrange each state by Table Q7
49.A-Z
   Other regions or countries, A-Z
      Subarrange each country by Table Q7

Special teaching methods and aids
49.5
   General works
49.6.A-Z
   Special methods, A-Z
        49.6.P76
          Process oriented guided inquiry learning

Laboratories
51
   General works
51.5.A-Z
   By region or country, A-Z
      Subarrange each country by Table Q6

Instruments and apparatus
53
   General works
54.A-Z
   Special, A-Z
      54.A3
        Absorption apparatus
      54.C4
        Centrifuges
      54.E8
        Eudiometer
      54.F85
        Fume hoods
      54.L33
        Labs on a chip
      54.P5
        Pipettes
      54.S8
        Sulfuric acid concentrator
      54.T4
        Thermostat

Techniques and operations
61
   General works
63.A-Z
   Special, A-Z
      Cf. QD258+ Operations in organic chemistry
      63.D5
        Dissolution
      63.D6
        Distillation
      Electric furnace operations (Inorganic chemistry) see QD157
      Electric furnace operations (Organic chemistry) see QD277
      63.E83
        Exchange reactions
      63.E88
        Extraction
      63.F5
        Filtration
      63.G5
        Glass manipulation
      63.H87
        Hydration
      63.H9
        Hydrogenation
      63.I55
        Ion exchange
      63.L3
        Laser techniques
      63.M3
        Masking
      63.N5
        Nitration

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Laboratories
   Techniques and operations
      Special, A-Z -- Continued
63.O9          Oxidation
63.P4          Percolation
63.R4          Reduction
63.S4          Separation
63.V33         Vacuum techniques
63.5           Safety measures
64             Waste disposal
65             Handbooks, tables, formulas, etc.
                Catalogs, pricelists, etc. see TP202
Analytical chemistry
   For the analysis of special elements and their compounds
      see QD181.A+
   For the analysis of organic compounds see QD271+
   Cf. QE516.3 Analytical geochemistry
71             Periodicals, societies, congresses, serial publications
71.2           Collected works (nonserial)
71.5           Dictionaries and encyclopedias
71.8           Nomenclature, terminology, notation, abbreviations
History
72             General works
72.5.A-Z       By region or country, A-Z
                General works, treatises, and textbooks
75             Through 1970
75.2           1971-2000
75.22          2001-
75.25          Addresses, essays, lectures
75.3           Special aspects of the subject as a whole
75.4.A-Z       Special topics, A-Z
75.4.A8        Automation
75.4.C34       Calibration
75.4.C45       Chemometrics
75.4.E4        Electronic data processing
                Forensic chemistry see RA1057
75.4.K54       Kinetics
(75.4.M36)     Mathematics
                see QD75.4.C45
(75.4.M4)      Measurement
                see QD75.4.C45
75.4.Q34       Quality control
                Preparation of samples see QD75.4.S24
75.4.S24       Sample introduction see QD75.4.S24
75.4.S25       Sample preparation. Sample introduction
75.4.S73       Sampling
                Stable isotopes

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Analytical chemistry
Special topics, A-Z -- Continued

(75.4.S8)  Statistical methods
          see QD75.4.C45
75.4.U48  Ultrasonic waves
          Study and teaching. Research
75.7     General works
75.9     Problems, exercises, examinations
76       Laboratory manuals
77       Reagents, indicators, test papers, etc.
78       Handbooks, tables, formulas, etc.
79.A-Z   Methods of analysis (Qualitative and quantitative), A-Z
          Chemical microscopy see QH221
          Chromatographic analysis
79.C4    General works
79.C45   Gas chromatography
79.C453  Ion exchange chromatography
79.C4537 Ligand exchange chromatography
79.C454  Liquid chromatography
79.C46   Paper chromatography
79.C52   Preparative layer chromatography
79.C75   Radiochromatography
79.C8    Thin layer chromatography
79.E4    Electron diffraction
79.E44   Electrophoresis
79.F4    Fluorimetry
79.I5    Instrumental analysis
79.M5    Microchemical analysis
          Molecular emission cavity analysis see QD79.P4
79.O8    Oximetry
79.P4    Phosphorimetry. Molecular emission cavity analysis
79.P46   Photometry
          Radiochemical analysis see QD605+
79.S4    Sedimentation analysis
          Spectrum analysis see QD95+
79.T38   Thermal analysis
79.T4    Thermogravimetry
          Qualitative analysis
81       General works, treatises, and advanced textbooks
83       Elementary textbooks
84       Laboratory manuals
85       Tables, outlines, etc.
87       Blowpipe analysis
          Cf. QE367+ Determinative mineralogy
Analytical chemistry
Qualitative analysis -- Continued

Spectrum analysis (Qualitative and quantitative)
Class here works on the applications of spectroscopy in general analytical chemistry and theoretical works intended primarily for chemists.
For general works on the theory of spectroscopy and works intended primarily for physicists see QC450+
For compilations of spectra of elements, groups of elements, organic and inorganic compounds see QC462+
For works on the applications of spectroscopy in organic analytical chemistry see QD272.S6
Cf. CC79.S65 Spectrum analysis in archaeology

95 General works
95.5.A-Z Special topics, A-Z
95.5.D37 Data processing
95.5.S72 Statistical methods
96.A-Z Special methods and types of spectra, A-Z
96.A2 Absorption spectra
Including cavity-ringdown spectroscopy
96.A7 Arc spectra
96.A8 Atomic spectra
Cavity-ringdown spectroscopy see QD96.A2
96.D48 Deuteron magnetic resonance spectroscopy
96.E4 Electron paramagnetic resonance spectroscopy
96.E44 Electron spectroscopy
96.E46 Emission spectroscopy
96.F5 Flame spectroscopy
96.F56 Fluorescence spectroscopy
96.F68 Fourier transform spectroscopy
Cf. QD96.I5 Fourier transform infrared spectroscopy
Cf. QD96.N8 Fourier transform nuclear magnetic resonance spectroscopy
96.I47 Inductively coupled plasma spectrometry
Class here works on all types of spectrum analytical methods using inductively coupled plasmas
96.I5 Infrared spectroscopy
Including Fourier transform infrared spectroscopy
96.I54 Ion cyclotron resonance spectroscopy
96.L3 Ion mobility spectroscopy see QD96.P62
96.L3 Laser spectroscopy
96.L85 Luminescence spectroscopy
96.M3 Mass spectroscopy
96.M33 Matrix isolation spectroscopy
96.M5 Microwave spectroscopy
Analytical chemistry
Qualitative analysis
  Spectrum analysis (Qualitative and quantitative)
    Special methods and types of spectra, A-Z -- Continued
  96.M6    Mössbauer spectroscopy
  96.M65   Molecular spectra
  96.N8    Nuclear magnetic resonance spectroscopy
    Including Fourier transform nuclear magnetic resonance spectroscopy
  96.N84   Nuclear quadrupole resonance spectroscopy
  96.O6    Optoacoustic spectroscopy
  96.P5    Photoelectron spectroscopy
  96.P54   Photothermal spectroscopy
  96.P62   Plasma spectroscopy
    Including ion mobility spectroscopy
    Cf. QD96.I47 Inductively coupled plasma spectrometry
  96.P7    Proton magnetic resonance spectroscopy
  96.R3    Radiofrequency spectroscopy
  96.R34   Raman spectroscopy
  96.R4    Reflectance spectroscopy
  96.R44   Relaxation spectroscopy
  96.S43   Secondary ion mass spectroscopy
  96.U4    Ultraviolet spectroscopy
  96.V53   Vibrational spectra
  96.X2    X-ray spectroscopy
  98.A-Z   Other special methods, A-Z
    98.C4    Chromatography
    98.E4    Electron microprobe
    98.K5    Kinetic analysis
    98.M5    Microchemical analysis
    98.S6    Spot tests
Quantitative analysis
  General works, treatises, and textbooks
    101 Through 1970
    101.2 1971-
  111 Volumetric analysis
  113 Colorimetric analysis
    Electrochemical analysis
    115 General works
    116.C65 Conductometric analysis
    116.I57 Impedance spectroscopy
    116.P64 Polarography
    116.P68 Potentiometry
    116.V64 Voltammetry
    117.A-Z Other special methods, A-Z
Analytical chemistry
Quantitative analysis
Other special methods, A-Z -- Continued
117.C5-.C52 Chromatography
117.C5 General works
117.C515 Gas chromatography
117.C517 Liquid chromatography
117.C52 Thin layer chromatography
117.E4 Electron diffraction
117.E42 Electron microprobe. Electron probe microanalysis
117.E45 Electrophoresis
117.F5 Fluorimetry
117.M5 Microchemical analysis. Microchemistry
117.P5 Photometry
117.R3 Radiometry. Radiation measurement
117.S64 Spectrophotometry
Spectrum analysis see QD95+
117.T4 Thermal analysis
121 Gas analysis
Including air analysis
Cf. TP754 Analysis, tests, etc. in the gas industry
Technical analysis
130 Periodicals, societies, congresses, serial publications
131 General works, treatises, and textbooks
Metals
132 General works
Assaying see TN550+
133 Iron and steel alloys
Alloys (General). Nonferrous alloys
135 General works
137.A-Z Special metal alloys, A-Z
For the analysis of metallic elements see QD181.A+
137.A6 Aluminum alloys
137.A8 Arsenic alloys
137.B3 Babbitt metal
137.C5 Chromium-iron-nickel alloys
137.C6 Copper alloys
137.F35 Ferrites (Magnetic materials)
137.F38 Ferroboron
137.F4 Ferrochromium
137.F44 Ferroniobium
137.F48 Ferrotungsten
137.G6 Gold alloys
Iron alloys (General) see QD133
137.M3 Magnesium alloys
137.N5 Nickel alloys
Analytical chemistry
Technical analysis
Metals
Alloys (General). Nonferrous alloys
Special metal alloys, A-Z -- Continued
137.S5                   Silver alloys
137.U73                   Steel alloys see QD133
137.Z5                   Uranium alloys
137.Z5                   Zinc alloys
139.A-Z             Other special, A-Z
   Air see QD121
   Air pollution see TD890
   Carbonated beverages see TP628+
   Cement see TP882.3
   Ceramics see TP810
139.C53             Cigarette smoke
   Clay see TP811
   Distilled beverages see TP609
139.E4             Electrolytes
   Fats, oils, and waxes see TP671
   Fermentation industries see TP511
   Food see TX545
   Gas see QD121
   Gas industry see TP754
139.G5             Glass
   Materials (General) see QD130+
   Oils, fats, and waxes see TP671
   Oils (Petroleum) see TP691
   Plastics see TP1140
139.P6             Polymers
139.S44             Semiconductors
139.S5             Silicon organic compounds
   Textiles
      see TS1449
139.T7             Trace elements
      Water see QD142
      Water supply see TD380+
      Wine see TP548.5.A5
142             Water analysis
      Cf. TD380+ Water supply
Inorganic chemistry
      Cf. QD475 Physical inorganic chemistry
      Cf. QE351+ Mineralogy
146             Periodicals, societies, congresses, serial publications
147             Collected works (nonserial)
148             Dictionaries and encyclopedias
Inorganic chemistry -- Continued

149  Nomenclature, terminology, notation, abbreviations

History
149.5  General works
149.7.A-Z  By region or country, A-Z

150  Early works through 1800

General works, treatises, and advanced textbooks
151  1801-1969
151.2  1970-2000
151.3  2001-
151.5  Elementary textbooks

152  Addresses, essays, lectures
152.3  Special aspects of the subject as a whole
152.5.A-Z  Special topics, A-Z
152.5.D46  Density functionals
152.5.M38  Mathematics

Reaction mechanisms see QD502.5

Study and teaching. Research
153  General works
153.5  Outlines, syllabi, etc
154  Problems, exercises, examinations
155  Laboratory manuals
155.5  Handbooks, tables, formulas, etc.
156  Inorganic synthesis
157  Electric furnace operations

Cf. QD277 Electric furnace operations (Organic)

Nonmetals
161  General works
162  Gases
163  Chemistry of the air

Cf. TD881+ Air pollution

165  Halogens: Bromine, chlorine, fluorine, iodine
167  Inorganic acids

Cf. QD477 General theory of acids and bases

169.A-Z  Other, A-Z
169.C5  Chalcogenides

Cf. TD881+ Air pollution

169.W3  Heavy water see QD169.W3

Water

Cf. GB855+ Natural water chemistry

Metals

Cf. TN600+ Metallurgy
171  General works, treatises, and textbooks
172.A-Z  By group, A-Z
172.A3  Actinide elements
172.A4  Alkali metals
172.A42  Alkaline earth metals
172.I7  Iron group
Inorganic chemistry
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By group, A-Z -- Continued
172.M4 Magnesium group
172.P8 Platinum group
172.P88 Precious metals
172.R2 Rare earth metals
172.S6 Spinel group
172.S93 Superheavy elements
   Cf. QC796.2 Nuclear physics
172.T52 Titanium group
172.T6 Transition metals
172.T65 Transplutonium elements
172.T7 Transuranium elements
181.A-Z Special elements. By chemical symbol, A-Z (Table Q1)
   Class here works on the origin, properties, preparation,
   reactions, isotopes, and analytical chemistry of individual
   elements and their inorganic compounds.
   For the determination of atomic and molecular weights
   see QD464.A+

Salts
189 General works
191 Double salts
193 Complex salts
194 Oxysalts
196 Inorganic polymers and polymerization
197 Cyclic compounds
Organic chemistry
   Cf. QD476 Physical organic chemistry
   Cf. QD478 Solids. Solid state chemistry (Inorganic and
   organic)
241 Periodicals, societies, congresses, serial collections
(243) Yearbooks
   see QD241
245 Collected works (nonserial)
246 Dictionaries and encyclopedias
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248 General works
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255.4 Special aspects of the subject as a whole
255.5.A-Z Special topics, A-Z
255.5.E4 Electronic data processing
255.5.M35 Mathematics
255.5.R33 Radiation effects
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256 General works
256.5 Outlines, syllabi
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257.7 Handbooks, tables, formulas, etc.
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258 General works
261 Laboratory manuals
262 Organic synthesis
   Including general works on combinatorial chemistry
   For works on pharmaceutical aspects of combinatorial
   chemistry see RS419
Organic analysis
   Class here general works on the analysis of organic
   compounds
   For the analysis of specific organic compounds or groups of
   compounds, see QD301
   For works on the analysis of both organic and inorganic
   compounds see QD71+
271.A1 Periodicals, societies, congresses, serial publications
271.A2-Z General works, treatises, and textbooks
   Reagents, indicators, test papers, etc.
271.3 General works
271.35.A-Z Special topics, A-Z
271.35.E54 Electrophiles. Superelectrophiles
271.4 Qualitative analysis
   Prefer QD272 for special methods in qualitative analysis
271.7 Quantitative analysis
   Prefer QD272 for special methods in quantitative analysis
272.A-Z Special methods of analysis (Qualitative and
   quantitative), A-Z
Chromatography
272.C4 General works
272.C44 Gas chromatography
272.C444 Gel permeation chromatography
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Organic analysis
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272.C447 Liquid chromatography
272.C45 Thin layer chromatography
272.C6 Colorimetric analysis
272.E4 Electrochemical analysis
272.E43 Electrophoresis
272.E5 Enzymatic analysis
272.M5 Microchemical analysis
272.P5 Photometry
272.S57 Spectrophotometry
272.S6 Spectrum analysis
Works on the application of spectroscopy in general or
inorganic analytical chemistry are classed in QD95
For compilations of spectra see QC462+
272.T45 Thermal analysis
272.V6 Volumetric analysis
273 Electrochemistry of organic compounds
Cf. QP517.B53 Bioelectrochemistry
275 Organic photochemistry
Cf. QP517.P45 Photobiochemistry
277 Electric furnace operations
281.A-Z Other special, A-Z
281.A2 Acylation
281.A5 Alkylation
281.A6 Amination
281.A63 Ammonolysis
281.B7 Bromination
281.C3 Catalysis
281.C5 Chlorination
281.C7 Condensation
Cyclization see QD281.R5
281.D4 Dehydrogenation
281.D47 Dialysis
281.D5 Distillation
281.E4 Elimination reactions
281.F5 Flotation
281.F55 Fluorination
281.F7 Fragmentation reactions
281.H3 Halogenation
281.H78 Hydroboration
281.H79 Hydroformylation
281.H8 Hydrogenation
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281.H83             Hydrolysis
281.H84             Hydrosilylation
281.H85             Hydroxylation
281.I7             Isotopic exchange reactions
281.M48             Methylation
281.N5             Nitration
281.O9             Oxidation
281.O95             Ozonolysis. Ozonization
281.P46             Phosphorylation
281.P6             Polymerization. Telomerization
281.P9             Pyrolysis
281.Q5             Quinoidation
281.R35             Rearrangement reactions. Rearrangements
281.R4             Reduction
281.R5             Ring formation
                     Including ring breaking, enlargement, and closure, and ring-
                     opening polymerization
281.S5             Silylation
281.S6             Solvolysis
281.S67             Substitution reactions
281.S7             Sulfonation
                     Telomerization see QD281.P6

291              Nomenclature, terminology, notation, abbreviations

Aliphatic compounds

300              Periodicals, societies, congresses, serial publications
301              General works, treatises, and textbooks
302              Special aspects of the subject as a whole
305.A-Z            Special groups, A-Z
                     Including works on both aliphatic and aromatic aspects of
                     functional groups
                     For works on special groups of aromatic compounds
                     only see QD341.A+
305.A2             Acids and esters
305.A4             Alcohols
305.A6             Aldehydes and other carbonyl compounds
                     For ketones see QD305.K2
305.A7             Amides and hydrazides
                     Cf. QD315 Urea
                     Amino acids see QD431+
305.A8             Amino compounds
305.A9             Azo, hydrazo, and diazo compounds
305.C3             Carbanions and carbonium ions, free radicals, ylides
305.E7             Ethers and oxides
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Aliphatic compounds
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305.F2  Fats and fatty oils
   Cf. QP751+ Animal biochemistry
   Cf. TP669+ Chemical technology
Free radicals see QD305.C3
Glycols see QD305.A4
305.H15  Halogen compounds
Hydrocarbons
305.H5  General works
305.H6  Alkanes (Paraffins)
305.H7  Alkenes (Olefins)
   Cf. TP248.A554 Chemical technology
305.H8  Alkynes (Acetylene, etc.)
305.H9  Alicyclic compounds (Non-aromatic compounds with ring structure)
305.I6  Imides, imidoesters, etc.
305.K2  Ketones, ketenes, and oximes
305.N7  Nitriles and cyanogen derivatives
305.N8  Nitro and nitroso compounds
305.N84  Nitrogen derivatives (General)
305.P46  Phosphorus derivatives (General)
Radicals see QD305.C3
305.S54  Silicon compounds
305.S83  Sulfones
305.S84  Sulfur derivatives (General)
305.T45  Thio compounds
Ylides see QD305.C3
315  Urea and related compounds
   Cf. QP801.U7 Animal biochemistry
Carbohydrates
   Including sugars, starch, etc.
   Cf. QP701+ Animal biochemistry
   Cf. TP375+ Sugar manufacture
   Cf. TP415+ Starch
320  Periodicals, societies, congresses, serial publications
321  General works, treatises, and textbooks
322.A-Z  Special topics, A-Z
322.A52  Analysis
322.S95  Synthesis
323  Cellulose
   Including hemicellulose
325  Glycosides
   Including glucosides, mannosides, and galactosides
327  Tannins
Organic chemistry -- Continued

Aromatic compounds
  Cf. QD390+ Condensed benzene rings
  Cf. QD399+ Heterocyclic compounds

330  Periodicals, societies, congresses, serial publications
331  General works, treatises, and textbooks
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341.A6  Aldehydes and other carbonyl compounds
        For ketones see QD341.K2
341.A7  Amides and hydrazides
341.A8  Amino acids see QD431+
341.A83  Amino compounds
341.A9  Azo, hydrazo, and diazo compounds
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341.H9  Hydrocarbons, benzene, etc.
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341.K2  Ketones
341.N7  Nitriles and cyanogen derivatives
341.N8  Nitro and nitroso compounds
341.N83  Nitrogen derivatives (General)
341.P5  Phenols
341.P6  Pseudophenols
341.Q4  Quinones
341.S3  Sulfur derivatives (General)
341.S6  Sulfoxides and sulfones
341.S8  Sulfonium compounds

Antibiotics
  Cf. QP801.A63 Animal biochemistry
  Cf. RM265+ Therapeutics

375  General works, treatises, and textbooks
377.A-Z  Special substances, A-Z
377.C4  Cephalosporin
377.C5  Chloromycetin
377.P4  Penicillin
377.P55  Pimaricin
377.S8  Streptomycin
377.S85  Streptothricin
377.T45  Tetracycline
377.V5  Viomycin
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Polymers. Macromolecules
Class here general works on chemical and physical properties
of polymers
For works on physical properties see QC173.4.P65
Cf. QD139.P6 Technical analysis
Cf. QD196 Inorganic polymers
Cf. QD281.P6 Polymerization (Organic chemistry)
Cf. QD399+ Macrocyclic compounds
Cf. TP156.P6 Polymerization (Chemical engineering)
Cf. TP1080+ Polymer technology
380 Periodicals, societies, congresses, serial publications
380.3 Dictionaries and encyclopedias
380.6 Nomenclature, terminology, notation, abbreviations
380.7 Classification
381 General works, treatises, and textbooks
381.3 Juvenile works
381.7 Addresses, essays, lectures
381.8 Special aspects of the subject as a whole
381.9.A-Z Special topics, A-Z
381.9.A25 Acoustic properties
381.9.C64 Conformational analysis
381.9.D47 Deterioration
381.9.E38 Electric properties
381.9.E4 Electronic data processing
381.9.S44 Fractionation see QD381.9.S44
381.9.M3 Mathematical models
381.9.M64 Molecular weights
381.9.O66 Optical properties
381.9.P45 Permeability
381.9.P56 Photochemistry
381.9.R3 Radiation effects
381.9.R43 Reduced gravity effects
381.9.R48 Rheology
381.9.R48 Ring-opening polymerization see QD281.R5
381.9.S44 Separation. Fractionation
381.9.S65 Solubility and solutions
381.9.S87 Structure
381.9.S97 Surfaces and interfaces
381.9.T54 Thermal properties
382.A-Z Special types, A-Z
382.A47 Amphiphiles
382.B47 Biomimetic polymers
382.B5 Block copolymers
382.B73 Branched polymers
Including star-branched polymers and hyper-branched polymers
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382.C66  Conducting polymers. Conjugated polymers
382.C665 Conjugated oligomers
    Including oligothiophenes
Conjugated polymers see QD382.C66
382.C67  Coordination polymers
Crosslinked polymers see QD382.P67
382.C78  Crystalline polymers
382.E48  Emulsion polymers
382.F55  Fluorescent polymers
382.G7   Graft copolymers
382.H4   Heat resistant polymers
382.H48  Heterochain polymers
Hyper-branched polymers see QD382.B73
382.I43  Imprinted polymers
382.I45  Ionomers
Metallofoldamers see QD382.O43
382.O43  Oligomers
    Including metallofoldamers
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382.P45  Photopolymers. Photochromic polymers
382.P64  Polyelectrolytes
    Including polyampholytes
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Polymer liquid crystals see QD923
382.P67  Polymer networks. Crosslinked polymers
382.R43  Reactive polymers
382.S4   Semiconductors
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382.T44  Telechelic polymers
382.T46  Thermoresponsive polymers
382.W3   Water-soluble polymers
383.A-Z  Special substances, A-Z
383.A27  Acrylic polymers
383.A55  Amine polymers
383.A95  Azo polymers
383.B67  Boron organic polymers
383.E66  Epoxy polymers
383.F48  Fluoropolymers
383.F84  Fullerene polymers
383.G57  Glutamic acid polymers
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383.S54  Silicon polymers
383.V56  Vinyl polymers
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   Naphthalene and naphthalene derivatives
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   Anthracene and anthracene derivatives
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   Phenanthrene and phenanthrene derivatives
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   Cyclic compounds containing N
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   Cyclic compounds containing S
405
   Cyclic compounds containing O
406
   Cyclic compounds containing P
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   Cf. QD882 Supramolecular organometallic chemistry
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   Periodicals, societies, congresses, serial publications
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411.7.B37
   Barbier reactions
411.7.S94
   Synthesis
411.7.T47
   Thermal properties
411.8.A-Z
   Special groups of substances, A-Z
411.8.A47
   Alkoxides
      Including aryloxides
411.8.R37
   Rare earth metals
411.8.T73
   Transition metals
412.A-Z
   Special compounds. By chemical symbol of added element, A-Z (Table Q1)
412.5
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Biochemistry
   Class here works on chemical aspects of biological materials
   Cf. QD476.2 Physical biochemistry
   Cf. QH345 General biochemistry of plants and animals
   Cf. QK861+ Plant biochemistry
   Cf. QP501+ Animal biochemistry
415.A1
   Periodicals, societies, congresses, serial publications
415.A2
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415.A25
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415.A3-Z
   General works, treatises, and textbooks
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#### Biochemistry -- Continued

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**Antibiotics** see QD375+

**Terpenes, camphors, etc. Essential oils**

- Cf. TP958+ Essences (Chemical technology)

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**Gums and resins**

- Cf. TP977+ Chemical technology
- Cf. TP1101+ Plastic materials for synthetic gums and resins

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**Alkaloids**

- Cf. QK898.A4 Plant constituent
- Cf. RM666.A4 Therapeutics
- Cf. RS431.A53 Pharmaceutical chemistry

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**Steroids**

- Cf. QP752.S7 Animal biochemistry
- Cf. RS163.S8 Materia medica

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**Proteins, peptides, amino acids, etc.**

- Cf. QP551+ Animal biochemistry
- Cf. TX553.P7 Special constituents of food
Organic chemistry
Biochemistry
Proteins, peptides, amino acids, etc. -- Continued

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Colored compounds
Including phthaleins, eosin, animal and plant pigments
Cf. QK899 Botany
Cf. QP670+ Animal biochemistry
Cf. TP909.2+ Chemical technology

Physical and theoretical chemistry
Cf. QC170+ Constitution and properties of matter

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455.3.G75  Group theory
455.3.L53  Lie algebras
455.3.M3  Mathematics
455.3.T65  Topology

Study and teaching. Research

455.5  General works
455.7  Outlines, syllabi
456  Problems, exercises, examinations
457  Laboratory manuals
457.2  Computer-assisted instruction
458  Handbooks, tables, formulas, etc.

461  Atomic and molecular theory and structure. Laws of chemical combination and chemical bonds. Molecular dimensions

Cf. QD469 Valence

461.5  Excited state chemistry

Quantum chemistry

462.A1  Periodicals, societies, congresses, serial publications
462.A3-Z  General works, treatises, and textbooks
462.5  Addresses, essays, lectures
462.6.A-Z  Special topics, A-Z
462.6.D38  Data processing
462.6.D45  Density functionals
462.6.D46  Density matrices
462.6.E53  Energy levels
462.6.M36  Many-body methods
462.6.M39  Mathematics
462.6.M66  Monte Carlo method
462.6.P68  Potential energy surfaces
462.6.R42  Relativistic effects
462.6.R44  Relaxation phenomena
462.6.S25  Scaling
462.6.S94  Symmetry groups
462.7  Problems, exercises, examinations
462.9  Handbooks, tables, formulas, etc.

Atomic and molecular weights

463  General works, treatises, and textbooks
464.A-Z  Individual elements and their compounds. By chemical symbol of principal element, A-Z (Table Q1)

Chemical elements

Nature and properties

466  General works
Physical and theoretical chemistry

Chemical elements

Nature and properties -- Continued

466.5 Isotopes

For isotopes of individual elements see QD181.A+

Cf. QD601+ Radiochemistry

Cf. TK9400+ Radioisotopes in nuclear engineering

467 Classification. Periodic law

469 Valence

Cf. QC176.8.V34 Valence fluctuations

470 Allotropy

471 Chemical compounds - Structure and formulas

Including isomerism, mesomerism, tautomerism

Cf. QD481 Stereochemistry

473 Physical properties in relation to structure

Including odor, color, and optical properties

Cf. QD441 Colored organic compounds

Cf. QD931+ Physical properties of crystals

474 Complex compounds

Including clathrate and coordination compounds, chelates, and hydrates

Cf. QD410+ Organometallic compounds

475 Physical inorganic chemistry

476 Physical organic chemistry

476.2 Physical biochemistry

477 Acids and bases (General theory)

478 Solids. Solid state chemistry (Inorganic and organic)

Cf. QC176+ Solid state physics

Cf. QD506+ Surface chemistry

Cf. QD901+ Crystallography

Cf. TN689+ Physical metallurgy

480 Models of atoms, molecules, or chemical compounds

481 Stereochemistry. Molecular rotation

Cf. QP517.S83 Biochemistry

Conditions and laws of chemical reactions

501 General works

Chemical kinetics and mechanisms

502 General works

502.2 Nonlinear chemical kinetics. Oscillating chemical reactions

502.5 Reaction mechanisms

Including inorganic and organic mechanisms

503 Chemical equilibrium. Phase rule, etc.

504 Thermodynamics

505 Catalysis

Cf. QD569 Electrocatalysis

Cf. QD716.P45 Photocatalysis
Physical and theoretical chemistry
Conditions and laws of chemical reactions -- Continued

505.5 Chemical affinity and reactivity
505.8 Chemiluminescence

Surface chemistry
506.A1 Periodicals, societies, congresses, serial publications
506.A3-Z General works, treatises, and textbooks
508 Addresses, essays, lectures
509.A-Z Special topics, A-Z
509.G37 Gas-solid interfaces
509.L54 Liquid-liquid interfaces
509.M46 Metallic oxides
509.M65 Monomolecular films
509.S65 Solid-liquid interfaces

Thermochemistry
Cf. QC301+ Change of state (Physics)
Cf. QD79.T38 Thermal analysis (Analytical chemistry)
Cf. QD117.T4 Thermal analysis, Quantitative
Cf. QD157 Electric furnace operations (Inorganic chemistry)
Cf. QD277 Electric furnace operations (Organic chemistry)

510 Periodicals, societies, congresses, serial publications
511 General works, treatises, and textbooks
511.3 Addresses, essays, lectures
511.7 Problems, exercises, examinations
511.8 Handbooks, tables, formulas, etc.
515 Chemistry of high and low temperatures
516 Heat of formation, combustion, flame, explosion
  Cf. TH946.3+ Flammability of materials
  Cf. TJ254.5+ Combustion engineering

517 Dissociation
518 Melting and boiling points
526 Fractional distillation
  Cf. QD63.D6 Special operations in chemistry
  Cf. QD281.D5 Operations in organic chemistry
  Cf. TP156.D5 Chemical engineering processes
  Cf. TP589+ Distilling industries

531 Manipulation of gases and vapors
  Cf. TP242+ Chemical technology of gases

533 Vapor densities
535 Liquefaction of gases
  Cf. TP243 Manufacture of liquefied gases

536 Research at low temperatures
  Cf. TP480+ Low temperature engineering

538 Chemistry of high and low pressures
Physical and theoretical chemistry -- Continued

Theory of solution
  Cf. QC182+ Special properties of matter
  Cf. QD565 Electrolyte solutions
540  Periodicals, societies, congresses, serial publications
541  General works, treatises, and textbooks
543  Solubility, osmotic pressure, diffusion, etc.
    Solvents
544  General works
544.3  Aqueous
544.5  Nonaqueous
  Cf. TP247.5 Technology of organic solvents
545  Freezing points and vapor pressures
547  Flocculation, precipitation, adsorption, etc.
548  Supersaturated solutions. Crystallization, etc.
  Cf. QD921+ Crystal structure and growth
Colloids, sols, gels
  Cf. QP525 Animal biochemistry
  Cf. S593.3 Soil colloids
549  General works
549.2.A-Z  Special topics, A-Z
549.2.C64  Colloidal crystals
549.2.C66  Complex fluids
549.2.F74  Freezing
549.2.P64  Polymer colloids

Electrochemistry. Electrolysis
  Cf. QC610.3+ Electric conductivity, electromotive force
  Cf. QD115+ Electrochemical analysis
  Cf. QD272.E4 Electrochemical analysis of organic compounds
  Cf. QD273 Electrochemistry of organic compounds
  Cf. QD880 Electrochemistry of supramolecular compounds
  Cf. QP517.B53 Bioelectrochemistry
  Cf. TP250+ Industrial electrochemistry
551  Periodicals, societies, congresses, serial publications
552  Collected works (nonserial)
552.5  Dictionaries and encyclopedias
553  General works, treatises, and textbooks
554  Popular works
554.5  Juvenile works
555  Addresses, essays, lectures
555.5  Special aspects of the subject as a whole
555.6.A-Z  Special topics, A-Z
555.6.E4  Electronic data processing
555.6.G74  Green's functions
555.6.I58  Interfaces
Physical and theoretical chemistry
Electrochemistry. Electrolysis
Special topics, A-Z -- Continued

555.6.L37 Laser electrochemistry
555.6.M36 Mathematical models
555.6.N65 Nonaqueous solvents
555.6.S65 Spectrum analysis
555.8 Study and teaching. Research
556 Problems, exercises, examinations
557 Laboratory manuals
Electrochemical laboratories
558 General works
558.2.A-Z By region or country, A-Z
Subarrange each country by Table Q6
559 Instruments and apparatus
560 Handbooks, tables, formulas, etc.
Ions and ionization
561 General works
562.A-Z Special topics, A-Z
562.A54 Anion separation
562.A75 Aqua ions
Dissociation see QD562.I65
562.E44 Electromotive force
562.E45 Electrophoresis
562.H93 Hydrogen-ion concentration
562.I63 Ion exchange. Ion exchange membranes
562.I65 Ionization. Dissociation
562.M54 Migration and velocity
Photodissociation see QD716.P48
Photoionization see QD716.P48
Velocity see QD562.M54
564 Electric double layer
565 Electrolytes, electrolyte solutions
Cf. TS672 Plating baths
568 Electrolytic cells
Cf. TK2901+ Electric power production from chemical action
569 Electrocatalysis
571 Electrode phenomena. Polarization, etc.
572.A-Z Special electrodes, A-Z
572.A65 Alkali metal
572.C37 Carbon
572.G53 Glass
572.H94 Hydrides
572.I66 Ion selective
572.I76 Iron
572.M34 Magnesium
Physical and theoretical chemistry
Electrochemistry. Electrolysis
Special electrodes, A-Z -- Continued
572.N53 Nickel
572.O85 Oxide
572.O88 Oxygen
572.S95 Sulfur
575.A-Z Special groups of substances, A-Z
575.C65 Complex compounds
575.G53 Glass
575.P67 Porous materials
576.A-Z Special substances. By chemical symbol of principal element, A-Z (Table Q1)
578 Photoelectrochemistry
581 Plasma chemistry
   Cf. TP156.P5 Industrial plasma chemistry
591 Magnetoochemistry
   Cf. QD940 Magnetic properties of crystals
Radiochemistry. Nuclear chemistry
   Cf. QC794.95+ Radioactivity, radioactive substances in nuclear physics
   Cf. TK9350 Nuclear engineering
   Cf. TP249 Industrial radiochemistry. Industrial radiation chemistry
601.A1 Periodicals, societies, congresses, serial publications
601.A2 Collected works (nonserial)
   General works, treatises, and textbooks
   Through 1970
601.2 1971-2000
601.3 2001-
602 Addresses, essays, lectures
602.4 Special aspects of the subject as a whole
602.5.A-Z Special topics, A-Z
602.5.E4 Electronic data processing
603.A-Z Special substances. By chemical symbol of principal element, A-Z (Table Q1)
Study and teaching. Research
604 General works
604.3 Problems, exercises, examinations
604.5 Experiments
604.7 Laboratory manuals
Radiochemical laboratories. Hot laboratories
   Cf. QC788+ Nuclear physics research laboratories and projects
604.8 General works
604.85.A-Z By region or country, A-Z
   Subarrange each country by Table Q6
Physical and theoretical chemistry
Radiochemistry. Nuclear chemistry -- Continued

604.9   Handbooks, tables, formulas, etc.
Radiochemical analysis

605   General works

606   Radioactivation analysis. Nuclear activation analysis

607   Tracer techniques
     For applications in special fields, see the field, e.g.
     QH324.3 Biology

608   Isotope dilution analysis

Radiation chemistry
     Cf. QC474+ Radiation physics
     Cf. TA418.6 Radiation effects and tests of materials
     Cf. TP249 Industrial radiochemistry. Industrial radiation chemistry

625   Periodicals, societies, congresses, serial publications

626   Collected works (nonserial)
     General works, treatises, and textbooks

635   General works
     Through 1970

636   1971-

641   Addresses, essays, lectures

642   Special aspects of the subject as a whole

643.A-Z   Special topics, A-Z

643.C5   Chemical dosimetry

643.P84   Pulse radiolysis

Study and teaching. Research

646   General works

646.3   Problems, exercises, examinations

646.5   Experiments

646.7   Laboratory manuals

649   Handbooks, tables, formulas, etc.

651.A-Z   Special substances. By name, A-Z

651.A36   Actinide elements

651.A4   Alcohol

651.A45   Ammonia

651.C37   Carbohydrates

651.H93   Hydrocarbons

651.M38   Mercapto compounds. Thiols

651.M4   Methanol

651.N5   Nitrous oxide

651.P6   Polymers
     Thiols see QD651.M38

651.W3   Water

655   Particular types of radiation and chemical reaction, e.g. x-rays (not A-Z)
Physical and theoretical chemistry -- Continued

Photochemistry
- Cf. QD275 Organic photochemistry
- Cf. QD578 Photoelectrochemistry
- Cf. QP517.P45 Photobiocemistry
- Cf. TP249.5 Industrial photochemistry
- Cf. TR200+ Photographic chemistry

701 Periodicals, societies, congresses, serial publications
- General works, treatises, and textbooks
  - Through 1970
  - 1971-

714 Addresses, essays, lectures

715 Special aspects of the subject as a whole

716.A-Z Special topics, A-Z

716.F54 Flash photolysis

716.L37 Laser photochemistry
  - Including femtochemistry

716.O95 Oxidation-reduction

716.P45 Photocatalysis

716.P47 Photochromism

716.P48 Photodissociation. Photoionization
  - Class here general works on chemical and physical aspects of photoionization.
  - For works on the physics of ionization produced by photons of light, X-rays or gamma rays see QC702.7.P48

716.P5 Photopolymerization
  - Class here general works on photopolymerization
  - For works on inorganic polymerization see QD196
  - For works on organic polymerization see QD281.P6

719 Handbooks, tables, formulas, etc.

730.A-Z Special groups of substances, A-Z

730.C65 Coordination compounds
  - Polymers see QD381.9.P56

730.S35 Semiconductors

730.T73 Transition metal compounds

731.A-Z Special substances. By chemical symbol of principal element, A-Z (Table Q1)

801 Sonochemistry
  - Cf. TP156.A33 Industrial use of sounds and ultrasonics

850 Mechanical chemistry

Supramolecular chemistry
  - Cf. QD380+ Macromolecules

875 Periodicals, societies, congresses, serial publications

876 Dictionaries and encyclopedias

878 General works, treatises, and textbooks

880 Electrochemistry of supramolecular compounds
Physical and theoretical chemistry
Supramolecular chemistry -- Continued

882
Supramolecular organometallic chemistry

Crystallography
  Cf. QE372+ Descriptive mineralogy
901
Periodicals, societies, congresses, serial publications
901.2
Collected works (nonserial)
902
Dictionaries and encyclopedias
902.5
Nomenclature, terminology, notation, abbreviations
History
903
General works
903.3.A-Z
By region or country, A-Z
Biography of crystallographers
903.5
Collective
903.6.A-Z
Individual, A-Z
903.8
Directories
904
Early works through 1800
General works, treatises, and textbooks
905
  1801-1969
905.2
  1970-
906
Pictorial works and atlases
906.3
Juvenile works
906.5
Addresses, essays, lectures
906.6
Special aspects of the subject as a whole
906.7.A-Z
Special topics, A-Z
906.7.E37
  Electron microscopy
906.7.E4
  Electronic data processing
906.7.N83
  Nuclear magnetic resonance spectroscopy
  Statistical methods see QD919
Study and teaching. Research
907
  General works
907.3
  Problems, exercises, examinations
907.5
  Laboratory manuals
907.7
  Instruments and apparatus
908
  Handbooks, tables, formulas, etc.
Geometrical and mathematical crystallography
911
  General works
912
  Fundamental systems
  Including tetragonal, orthorhombic, monoclinic systems
913
  Diagrams
915
  Goniometric measurements
919
  Statistical methods
Crystal structure and growth
  Including crystal lattices, defects, and dislocations
  For lattice dynamics see QC176.8.L3
  Cf. QD548 Crystallization in solutions
  Cf. QD549.2.C64 Colloidal crystals
Crystallography
Crystal structure and growth -- Continued
921 General works
923 Liquid crystals
  Including polymer liquid crystals
  Cf. QC173.4.L55 Physics
  Cf. TP1180.P666 Chemical technology
924 Photonic crystals
925 Polycrystals
926 Quasicrystals
  Cf. QC173.4.Q36 Physics
Physical properties of crystals
  Cf. QC176+ Solids, solid state physics
931 General works
933 Mechanical properties
  Including cohesion, elasticity, plasticity, cleavage, hardness
937 Thermal properties
939 Electric properties
  Cf. QC595 Pyroelectricity
  Cf. QC595.5 Piezoelectricity
940 Magnetic properties
941 Optical properties
  Including isotropy, anisotropy, refractivity, reflectivity, crystal rotation
  Cf. QC440+ Polarization
945 X-ray crystallography
947 Other physical properties (not A-Z)
951 Chemical crystallography
  Including relationships between structure and bonding, isomorphism, polymorphism, pseudomorphism
999 Miscellany and curiosa
Geology
For economic geology and mineral resources see TN1+
Cf. QB603.G46 Planetary geology
Cf. QH343.4 Geobiology
Cf. TA703+ Engineering geology
Cf. UG465+ Military geology
1 Periodicals, societies, congresses, serial publications
3 Collected works (nonserial)
4 Voyages and expeditions
5 Dictionaries and encyclopedias
6 Philosophy
7 Nomenclature, terminology, notation, abbreviations
History
11 General works
13.A-Z By region or country, A-Z
Biography
21 Collective
   e.g.
22.D25 Dana, James Dwight
22.L8 Lyell, Charles
22.S77 Steno, Nicolaus
23 Directories
25 Early works through 1800
   General works, treatises, and advanced textbooks
26 1801-1969
26.2 1970-2000
26.3 2001-
28 Elementary textbooks
   General
28.2 Physical geology
28.3 Historical geology
29 Juvenile works
31 Popular works
33 Special aspects of the subject as a whole
33.2.A-Z Special topics, A-Z
33.2.A3 Aerial photography in geology
33.2.A7 Artificial satellites in geology
33.2.B6 Borings
33.2.C48 Chaotic behavior in systems
33.2.C5 Charts, diagrams, etc.
   Computer simulation see QE48.8
   Data processing see QE48.8
33.2.F73 Fractals
33.2.H54 High pressure geosciences
33.2.M3 Mathematical geology
33.2.P47 Periodicity
Special topics, A-Z -- Continued

33.2.P7 Practical geology
33.2.R33 Radar in earth sciences
33.2.R4 Remote sensing
33.2.S6 Spectrum analysis in geology
33.2.S82 Statistical methods
33.2.S9 Subsurface geology
33.2.T45 Thermal analysis
33.2.T7 Translating services. Translating
33.2.W38 Wavelets

34 Geology as a profession. Vocational guidance
35 Addresses, essays, lectures
36 Geological maps
   Class here works on making, interpretation, and use of geological maps
   For the maps themselves see G3200+

Special fields

37 Agricultural geology
38 Engineering geology see TA703+
38 Environmental geology
38.5 Forensic geology
39 Military geology see UG465+
39 Submarine geology
   For submarine geology of a particular body of water, see QE350.2+
   Cf. GC83+ Submarine topography
   Cf. QE511.7 Sea-floor spreading

39.5.A-Z Other, A-Z
39.5.P25 Paleobiology see QE719.8
39.5.P25 Paleoceanography
39.5.P25 Paleoclimatology see QC884+
39.5.P25 Paleoecology see QE720+
39.5.P25 Paleogeography see QE501.4.P3
39.5.P27 Paleohydrology
39.5.P3 Paleolimnology
39.5.P3 Paleomagnetism see QE501.4.P35
39.5.P3 Paleopedology see QE473
39.5.P3 Paleoseismology see QE539.2.P34
39.5.U7 Urban geology
   For urban geology of a particular place see QE65+

Study and teaching. Research

40 General works
41 Outlines, syllabi
42 Problems, exercises, examinations
43 Models, diagrams, etc.
44 Laboratory manuals
45 Fieldwork
Study and teaching. Research -- Continued
By region or country
United States
47.A1 General works
47.A2-Z By region or state, A-Z
Subarrange each state by Table Q7
48.A-Z Other regions or countries, A-Z
Subarrange each country by Table Q7

48.6 Awards
48.8 Data processing
Including computer simulation
Communication in geology
48.85 General works
48.86 Information services
48.87 Computer network resources
Including the Internet
Laboratories
49.A1 General works
49.A3-Z By region or country, A-Z
Subarrange each country by Table Q6
49.5 Instruments and apparatus
Collection and preservation
Museums. Exhibitions
50 General works
51.A1 General works
51.A2-Z By region or country, A-Z
Subarrange each country by Table Q5
52 Handbooks, tables, formulas, etc.
53 Miscellany and curiosities
55 Dealers' catalogs of specimens
61 Surveys (History, organization, etc.)
Geographical divisions
65 Miscellaneous regions
e.g. British Empire
70 Arctic regions. Greenland
America
70.5 General works
North America
71 General works
United States
72 Surveys (General)
73 Surveys, before 1861
74 Surveys, 1865-1879
United States Geological Survey
75 General publications of the USGS
76 Works about the USGS
77 General works
Special regions
Geographical divisions
America
   North America
   United States
       Special regions -- Continued
       78                  Lake region and Saint Lawrence
       78.3               North. Northeast. East. Appalachian Mountains
       78.5               South. Southeast
       78.7               Central. Mississippi Valley
       79                  Western states. Rocky Mountains
       79.5               Southwest

By state
   Class counties, physiographic regions, etc. in the local number

   Alabama
     81                  General works
     82.A-Z              Local, A-Z

   Alaska
     83                  General works
     84.A-Z              Local, A-Z

   Arizona
     85                  General works
     86.A-Z              Local, A-Z

   Arkansas
     87                  General works
     88.A-Z              Local, A-Z

   California
     89                  General works
     90.A-Z              Local, A-Z

   Colorado
     91                  General works
     92.A-Z              Local, A-Z

   Connecticut
     93                  General works
     94.A-Z              Local, A-Z

   Delaware
     95                  General works
     96.A-Z              Local, A-Z

   District of Columbia

   Florida
     99                  General works
     100.A-Z             Local, A-Z

   Georgia
     101                 General works
     102.A-Z             Local, A-Z

   Hawaii see QE349.H3

Idaho
Geographical divisions
America
North America
United States
By state
  Idaho -- Continued
    General works
  Illinois
    General works
  Indiana
    General works
  Iowa
    General works
  Kansas
    General works
  Kentucky
    General works
  Louisiana
    General works
  Maine
    General works
  Maryland
    General works
  Massachusetts
    General works
  Michigan
    General works
  Minnesota
    General works
  Mississippi
    General works
  Missouri
    General works
  Nebraska
    General works
  Nevada
    General works
  New Hampshire
    General works
  New Jersey
    General works
  New Mexico
    General works
  New York
    General works
  North Carolina
    General works
  North Dakota
    General works
  Ohio
    General works
  Oklahoma
    General works
  Oregon
    General works
  Pennsylvania
    General works
  Rhode Island
    General works
  South Carolina
    General works
  South Dakota
    General works
  Tennessee
    General works
  Texas
    General works
  Utah
    General works
  Vermont
    General works
  Virginia
    General works
  Washington
    General works
  West Virginia
    General works
  Wisconsin
    General works
  Wyoming
    General works

A-Z
  General works
  Local, A-Z
Geographical divisions
America
North America
United States
By state -- Continued
Montana
133
General works
134.A-Z
Local, A-Z
Nebraska
135
General works
136.A-Z
Local, A-Z
Nevada
137
General works
138.A-Z
Local, A-Z
New Hampshire
139
General works
140.A-Z
Local, A-Z
New Jersey
141
General works
142.A-Z
Local, A-Z
New Mexico
143
General works
144.A-Z
Local, A-Z
New York
145
General works
146.A-Z
Local, A-Z
North Carolina
147
General works
148.A-Z
Local, A-Z
North Dakota
149
General works
150.A-Z
Local, A-Z
Ohio
151
General works
152.A-Z
Local, A-Z
Oklahoma
153
General works
154.A-Z
Local, A-Z
Oregon
155
General works
156.A-Z
Local, A-Z
Pennsylvania
157
General works
158.A-Z
Local, A-Z
Rhode Island
159
General works
160.A-Z
Local, A-Z
Geographical divisions
America
North America
United States
By state -- Continued
South Carolina
161
General works
162.A-Z
Local, A-Z
South Dakota
163
General works
164.A-Z
Local, A-Z
Tennessee
165
General works
166.A-Z
Local, A-Z
Texas
167
General works
168.A-Z
Local, A-Z
Utah
169
General works
170.A-Z
Local, A-Z
Vermont
171
General works
172.A-Z
Local, A-Z
Virginia
173
General works
174.A-Z
Local, A-Z
Washington (State)
175
General works
176.A-Z
Local, A-Z
West Virginia
177
General works
178.A-Z
Local, A-Z
Wisconsin
179
General works
180.A-Z
Local, A-Z
Wyoming
181
General works
182.A-Z
Local, A-Z
Canada
185
General works
186
Alberta
187
British Columbia
188
Manitoba
189
New Brunswick
190
Nova Scotia
191
Ontario
192
Prince Edward Island
Geographical divisions
America
North America
Canada -- Continued
193                Québec (Province)
194                Saskatchewan
195                Yukon
196.A-Z                Other northern territories, A-Z
(196.B3)                Baffin Island
                        see QE196.N86
196.F7                Franklin
196.H8                Hudson Bay
(196.K4)                Keewatin
                        see QE196.N86
                        Labrador see QE199
196.N7                Northwest Territories
                        Including Mackenzie
196.N86                Nunavut
                        Including Baffin Island, Keewatin
                        Ungava see QE193
199                Newfoundland and Labrador
Latin America
200              General works
201                General works
203.A-Z                Local, A-Z
Central America
210              General works
211                Belize
212                Costa Rica
213                Guatemala
214                Honduras
215                Nicaragua
216                Panama
217                El Salvador
West Indies. Caribbean Area
220              General works
221                Bahamas
222                Cuba
223                Haiti
224                Jamaica
225                Puerto Rico
226.A-Z                Other, A-Z
226.A5                Antigua and Barbuda
226.A53                Antilles, Lesser
226.B35                Barbados
                        British Virgin Islands see QE226.V53
Geographical divisions

America

Latin America

West Indies. Caribbean Area

Other, A-Z -- Continued

226.C39       Cayman Islands
226.D7        Dominican Republic
              Lesser Antilles see QE226.A53
226.M4        Martinique
226.S13       Saba
226.S175      Saint Martin
226.S56       Sint Eustatius
226.T8        Trinidad and Tobago
              United States Virgin Islands see QE226.V55
              Virgin Islands
226.V5        General works
226.V53       British Virgin Islands
226.V55       United States Virgin Islands
229           Bermuda
230           South America
231           General works
233           Argentina
235           Bolivia
237           Brazil
239           Chile
241           Colombia
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Description of special minerals, A-Z -- Continued

391.P34 Palygorskite
391.P44 Pecoraite
391.P47 Perovskite
391.P48 Petalite
391.P5 Pickeringite
391.P55 Plagioclase
391.P56 Pollucite
391.P8 Pyrophyllite
391.P84 Pyroxene
391.P86 Pyroxmangite
391.P9 Pyrrhotite
391.Q2 Quartz
Ramirite see QE391.C94
391.R5 Riebeckite
391.R7 Roscoelite
391.R88 Rutile
391.S25 Sapphirine
391.S28 Scapolite
391.S3 Scheelite
Schungite see QE475.S39
Sepiolite see QE391.M34
391.S47 Serpentine
391.S49 Siderite
391.S5 Sillimanite
391.S6 Smectite
391.S65 Sphalerite
391.S67 Sphene
391.S68 Spinel
391.S7 Spodumene
391.S73 Stannite
391.S75 Staurolite
391.S77 Stenonite
391.S8 Stichtite
391.T2 Talc
391.T3 Tephiroite
391.T4 Tetradyomite
391.T6 Topaz
391.T7 Tourmaline
391.T8 Trona
391.T85 Tugtupite
391.U65 Uraninite
Uranothallite see QE391.L5
391.V35 Vanadinite
391.V5 Vermiculite
391.V55 Vesuvianite
Mineralogy
Description of special minerals, A-Z -- Continued

391.V6          Villiaumite
391.V64          Vivianite
391.V68          Volkonskoite
391.W3          Wagnerite
391.W6          Wolframite
391.W66          Wollastonite
391.Z5          Zeolites
391.Z7          Zircon
391.Z8          Zoisite

Precious stones
Cf. NK7650+ Art industries
Cf. TN980+ Mining
Cf. TS747+ Jewelry manufacture

392          General works, treatises, and textbooks
392.2          Juvenile works
392.5.A-Z          By region or country, A-Z
393          Diamonds
394.A-Z          Other precious stones, A-Z
394.A4          Amethysts
394.E5          Emeralds
394.J3          Jade
394.J46          Jet
394.O7          Opals
394.R8          Rubies
394.S3          Sapphires
394.T8          Turquoise
396          Leucoxene
397          Rock-forming minerals
Meteorites see QB754.8+
399          Tektites
For fluorescent minerals see QE364.2.F5
399.2          Miscellany and curiosa

Petrology
Cf. TN950+ Building stones
420          Periodicals, societies, congresses, serial publications
421          Collected works (nonserial)
423          Dictionaries and encyclopedias
425          Nomenclature, terminology, notation, abbreviations
425.4          Classification
History
427.A1          General works
427.A2-Z          By region or country, A-Z
430          Early works through 1800
General works, treatises, and textbooks
431          1801-1969
Petrology
General works, treatises, and textbooks -- Continued

431.2  1970-
431.5 Special aspects of the subject as a whole
431.6.A-Z Special topics, A-Z
431.6.A25 Acoustic properties
431.6.E4 Electric properties
431.6.M3 Magnetic properties
431.6.M4 Mechanical properties
431.6.O7 Ores
431.6.P4 Petrogenesis
431.6.P5 Physical properties
431.6.P6 Porosity
431.6.T45 Thermal properties
431.6.W38 Water-rock interaction

432 Popular works
432.2 Juvenile works
432.5 Addresses, essays, lectures
Study and teaching. Research
432.7 General works
433 Laboratory manuals
433.5 Instruments and apparatus
433.6 Collection and preservation
   For rock collecting in specific geographic regions see QE443+
433.7 Data processing
433.8 Handbooks, tables, formulas, etc.
434 Microscopic analysis of rocks. Thin sections
435 X-ray petrology
438 Chemical analysis of rocks
440 Petrofabric analysis
   Including petrofabric diagrams

Museums. Exhibitions
442.A1 General works
442.A2-Z By region or country, A-Z
   Subarrange each country by Table Q5

Geographical divisions
North America
443 General works
444 United States
445.A-Z By region or state, A-Z
Canada
445.5 General works
446.A-Z By region or province, A-Z
Greenland see QE456.G73
Mexico
Petrology
Geographical divisions
North America
  Mexico -- Continued
  
446.5 General works
446.6.A-Z By region or state, A-Z
447 Central America (Table Q3)
448 West Indies. Caribbean Area (Table Q3)
448.5 Atlantic Ocean islands (Table Q3)
  Greenland see QE456.G73
449 South America (Table Q3)
451 Europe (Table Q3)
  Greenland see QE456.G73
452 Asia (Table Q3)
453 Africa (Table Q3)
  Indian Ocean islands
    General works
    453.3.A-Z By region, country, or island, A-Z
      Offshore islands generally class with adjacent mainland
      
Australasia
  453.45 General works
  Australia
  453.5 General works
  454.A-Z By region, state, or territory, A-Z
    New Zealand
  454.5 General works
  454.6.A-Z By region, territory, or island, A-Z

Pacific islands
  455.A1 General works
  455.A3-Z By region, country, or island, A-Z
    Offshore islands generally class with adjacent mainland

Polar regions
  455.8 General works
  456 Arctic regions (Table Q3)
    Greenland
  456.5 Antarctica (Table Q3)
    Greenland
  456.5.A1 General works
  456.5.A3-Z By region, country, or island, A-Z
    Offshore islands generally class with adjacent mainland

Tropics
Igneous rocks, volcanic ash, tuff, etc.
  461 General works
  462.A-Z Special, A-Z
  462.A34 Adakite
Petrology

Igneous rocks, volcanic ash, tuff, etc.

Special, A-Z -- Continued

462.A35 Alaskite
462.A37 Albitite
462.A4 Alkalic igneous rocks
462.A5 Andesite
462.A55 Anorthosite
462.A63 Aplite
462.B3 Basalt
462.B65 Boninite
462.C36 Carbonatites
462.C5 Charnockite
462.D5 Diabase
462.D56 Diorite
462.F4 Fenite
462.G3 Gabbro
462.G7 Granite
462.G75 Granodiorite
462.G77 Greenstone
462.H67 Hornblendite
462.I35 Ignimbrite
462.K44 Keratophyre
462.K5 Kimberlite
462.K66 Komatiite
462.L35 Lamproite
462.L37 Latite
462.L48 Leucitite
462.M6 Monzonite
462.N4 Nepheline syenite
462.O28 Obsidian
462.O43 Olivinite
462.O6 Ophiolites
462.O73 Orangeite
462.P4 Pegmatites
462.P43 Pegmatoids
462.P45 Peridotite
462.P6 Porphyry
462.P7 Propylite
462.R4 Rhyolite

Serpentinite see QE475.S47

462.S65 Spilites
462.S95 Syenite
462.T74 Trondhjemite
462.U4 Ultrabasic rocks
462.V64 Volcanite
Petrology -- Continued

Sedimentary rocks. Sedimentology

For sedimentation see QE571+

471
General works

471.15.A-Z
Special, A-Z

471.15.A68
Arenites

471.15.A7
Arkose

471.15.B32
Bauxite

471.15.B34
Beachrock

471.15.B4
Bentonite

471.15.B7
Breccia

471.15.C27
Calcretes

471.15.C3
Carbonate rocks

471.15.C4
Chert

471.15.C58
Concretions

471.15.C6
Conglomerate

471.15.D6
Dolomite

471.15.E8
Evaporites

471.15.F47
Flint

471.15.F5
Flysch

471.15.G4
Geodes

471.15.L5
Limestone

471.15.M44
Melanges

471.15.M83
Mudstone

471.15.O5
Oolite

Phosphate rock see QE471.15.P48

471.15.P48
Phosphorite. Phosphate rock

471.15.S2
Salt

471.15.S25
Sandstone

471.15.S5
Shale

471.15.S54
Siltstone

471.15.T5
Tillite

471.15.T64
Tonsteins

471.15.T73
Travertine

471.15.T8
Turbidites

471.2
Sediments (Unconsolidated)

471.3
Clay

472
Sedimentary structures

473
Paleopedology

Metamorphic rocks. Metamorphism

475.A2
General works, treatises, and textbooks

475.A3-Z
Special, A-Z

475.A4
Amphibolite

475.E25
Eclogite

475.G55
Gneiss

475.G7
Granulite

475.J27
Jadeite
Petrology
Metamorphic rocks. Metamorphism
   Special, A-Z -- Continued
475.J3             Jasperoid
475.L57             Listwanite
475.M3             Marble
475.M45             Metabasite
475.M5             Migmatite
475.M95             Mylonite
475.P47             Phyllite
475.Q3             Quartzite
475.S3             Schist
475.S39             Schungite
475.S47             Serpentinite
475.S6             Soapstone
475.T33             Tactite
475.T43             Tectonite
495             Laterite
496             Saprolites
499             Miscellany and curiosa
Dynamic and structural geology
   Physical and tectonic
500             Periodicals, societies, congresses, serial publications
500.5             History
501             General works, treatises, and textbooks
   Including physical history of the earth
501.2             Popular works
501.25             Juvenile works
501.3             Special aspects of the subject as a whole
501.4.A-Z             Special topics, A-Z
   Isotope geology see QE501.4.N9
501.4.M38             Mathematics
501.4.M6             Mohole project
501.4.N9             Nuclear geology. Isotope geology
501.4.P3             Paleogeography
501.4.P35             Paleomagnetism
   Paleoweathering see QE570
501.4.P6             Polar wandering
501.4.R45             Remote sensing
501.4.U6             Upper mantle project
505             Addresses, essays, lectures
505.5             Study and teaching. Research
506             Geological cosmogony
507             Deluge, etc.
508             Geological time. Age of the earth
   Including age determination, radioactive dating
   Interior of the earth. Internal structure of the earth
Dynamic and structural geology
Interior of the earth. Internal structure of the earth --
Continued
509
General works
509.2
Core
509.3
Core-mantle boundary
509.4
Mantle
509.5
Temperature
511
Earth's crust. Isostasy
Including continental crust, cratons, and glacial isostasy
Cf. QB331 Gravity determinations
511.2
Island arcs
Plate tectonics
511.4
General works
511.42
Neotectonics
511.44
Morphotectonics
511.46
Subduction zones
511.48
Suture zones
511.5
Continental drift
Including Gondwana, Pangaea
511.7
Sea-floor spreading
512
Epeirogeny
513
Salt tectonics
Geochemistry
Cf. QH343.7+ Biogeochemistry
514
Periodicals, societies, congresses, serial publications
Biography
514.6
Collective
514.62.A-Z
Individual, A-Z
515
General works, treatises, and textbooks
Geographical divisions
North America
515.15
General works
United States
515.16
General works
515.17.A-Z
By region or state, A-Z
515.18-.185
Canada
515.18
General works
515.185.A-Z
By region or province, A-Z
Greenland see QE515.46.G73
Mexico
515.19
General works
515.195.A-Z
By region or state, A-Z
515.2
Central America (Table Q3)
515.23
West Indies. Caribbean Area (Table Q3)
515.25
South America (Table Q3)
515.27
Atlantic Ocean islands (Table Q3)
Dynamic and structural geology
Geochemistry

Geographical divisions
Atlanic Ocean islands
   By region, country, or island -- Continued
      Greenland see QE515.46.G73

515.28   Europe (Table Q3)
   Greenland see QE515.46.G73

515.3   Asia (Table Q3)
515.33   Africa (Table Q3)
515.35   Indian Ocean islands (Table Q3)

Australasia

515.37   General works
   Australia
515.38   General works
515.39.A-Z   By state, territory, or region, A-Z
   New Zealand
515.4   General works
515.42.A-Z   By region, territory, or island, A-Z
515.43   Pacific islands (Table Q3)

Polar regions

515.45   General works
515.46   Arctic regions (Table Q3)
515.46.G73   Greenland
515.47   Antarctica (Table Q3)

515.49   Tropics
515.5.A-Z   Special topics, A-Z
515.5.D37   Data processing
515.5.G43   Geochemical modeling
515.5.G45   Geochemical self-organization
515.5.K55   Kinetics
515.5.R45   Remote sensing
515.5.T46   Thermodynamics
516.A-Z   Special elements and groups of elements, A-Z (Table Q1 modified)

516.A35   Alkali metals
516.C37   Carbon
      Including geological carbon sequestration
516.H3   Halogens
516.M65   Metals
516.R15   Radiactive substances
516.R2   Rare earth metals
516.R23   Rare gases
516.T85   Trace elements
516.3   Analytical geochemistry
516.4   Environmental geochemistry
      Nuclear geochemistry see QE501.4.N9

237
Dynamic and structural geology
Geochemistry -- Continued

516.5
Organic geochemistry

Dynamic geology
517
Periodicals, societies, congresses, serial publications

517.5
General works, treatises, and textbooks

Volcanoes and earthquakes
521
General works, treatises, and textbooks

521.2
Popular works

521.3
Juvenile works

Volcanoes. Volcanism
Including supervolcanoes

521.5
Periodicals, societies, congresses, serial publications

522
General works, treatises, and textbooks

523.A-Z
Individual volcanoes, A-Z
Including individually named groups

  e.g.

523.C47
Chichon (Mexico)

523.C7
Colima (Mexico: Volcano)

523.E8
Etna, Mount (Italy)

523.E95
Eyjafjallajökull Volcano (Iceland)

523.F68
Fournaise, Piton de la (Réunion)

523.F8
Fuji, Mount (Japan)

523.K3
Katmai, Mount (Alaska)

523.K5
Kilauea Volcano (Hawaii)

523.K73
Krakatoa (Indonesia)

523.M47
Merapi Volcano (Java, Indonesia)

523.O57
Ontake Mountain (Japan)

523.P3
Pelée, Mount (Martinique)

523.P56
Pinatubo, Mount (Philippines)

  Piton de la Fournaise (Réunion) see QE523.F68

523.P8
Popocatépetl (Mexico)

523.S23
Saint Helens, Mount (Wash.)

523.S27
Santorini Volcano (Greece)

523.S68
Soufrière (Guadeloupe)

523.V5
Vesuvius, Mount (Italy)

Western Hemisphere. America
Including Hawaii

524
General works

524.2.A-Z
By region or country, A-Z
For individual volcanoes see QE523.A+

Eastern Hemisphere. Europe, Africa

526
General works

526.2.A-Z
By region or country, A-Z
For individual volcanoes see QE523.A+

Eastern Hemisphere. Asia, Australasia

527
General works
Dynamic and structural geology
Volcanoes and earthquakes
Volcanoes. Volcanism
Eastern Hemisphere. Asia, Australasia -- Continued

527.2.A-Z By region or country, A-Z
For individual volcanoes see QE523.A+

527.3 Pacific Area (General)

527.4 Antarctica

527.5 Prediction of volcanic activity

527.55 Remote sensing

527.56 Tephrochronology

527.6 Volcanic hazard analysis. Safety measures
For hazard analysis or safety measures in specific geographic regions see QE523+

527.7 Volcanic plumes

527.73 Lava flows

527.75 Volcanic gases and vapors
Including volcanic gas reservoirs

528 Geysers, hot springs, etc.

529 Miscellany and curiosa

Earthquakes. Seismology
Cf. TC181 Earthquakes and hydraulic structures
Cf. TC542.5 Earthquakes and dams
Cf. TF539 Damage to railroads
Cf. TH1095 Earthquakes and building

531 Periodicals, societies, congresses, serial publications
Including serial collections issued by individual observatories

533 Early works through 1800

534 General works, treatises, and textbooks
1801-1969
1970-2000
2001-

Special
Western Hemisphere. America
535 General works
535.2.A-Z By region or country, A-Z
Eastern Hemisphere. Europe, Africa

536 General works
536.2.A-Z By region or country, A-Z
Eastern Hemisphere. Asia, Australasia

537 General works
537.2.A-Z By region or country, A-Z
537.5 Pacific Area (General)

538 Antarctica

538.5 Seismic waves. Elastic waves
Dynamic and structural geology
Volcanoes and earthquakes

Earthquakes. Seismology -- Continued

538.8 Earthquake prediction
539 Special aspects of the subject as a whole
539.2.A-Z Special topics, A-Z
539.2.A4 Aftershocks
539.2.D36 Data processing
539.2.E42 Elastic rebound theory
539.2.I46 Induced seismicity
539.2.I5 Intensity
539.2.M37 Mathematics
539.2.M5 Microseisms
539.2.P34 Paleoseismology
539.2.P4 Periodicity
539.2.R45 Remote sensing
539.2.S34 Safety measures. Hazard analysis
539.2.S37 Seismic event location
539.2.S4 Seismic models
539.2.S43 Seismic traveltime inversion
539.2.S73 Statistical methods
540.A2 General works
540.A5-Z By region or country, A-Z
540.A5-x General works
541 Instruments. Seismometry
Under each country:
541.x General works
541.x2A-x2Z Individual observatories. By name, A-Z

(545) Volcanic gases and vapors
see QE527.75

Coral islands and reefs. Atolls
Cf. GB461+ Geomorphology
565 General works
565.5.A-Z By region or country, A-Z
565.5.A-Z2 For individual coral reefs and islands see QE566.A+
566.A-Z Individual, A-Z
e.g.
566.F35 Fangataufa Atoll
566.G7 Great Barrier Reef (Qld.)
566.M87 Mururoa Atoll
570 Weathering
Including paleoweathering
Dynamic and structural geology -- Continued
Sedimentation
  Including erosion and deposition
  For sedimentary rocks and sedimentology see QE471+
571  General works
573  Cryopedology
      Glacial erosion
          Cf. GB581+ Glacial landforms
          Cf. QE697+ Pleistocene
575  Periodicals, societies, congresses, serial publications
576  General works, treatises, and textbooks
578  Moraines, eskers, kames
579  Drift. Loess
581  Aqueous erosion
          Cf. S622+ Agriculture
587  Eversion
597  Aerial erosion
Earth movements. Mass movements
  For descriptive works, disasters, etc., see DA+
598  Periodicals, societies, congresses, serial publications
598.2  General works, treatises, and textbooks
598.3  Juvenile works
598.5.A-Z  By region or country, A-Z
      Landslides. Rockslides
          Including mudflows and mudslides
599.A1  Periodicals, societies, congresses, serial publications
599.A2  General works, treatises, and textbooks
599.A5-Z  By region or country, A-Z
599.2  Landslide hazard analysis
          For hazard analysis in specific geographic regions
          see QE599.A5+
Subsidences
600  Periodicals, societies, congresses, serial publications
600.2  General works, treatises, and textbooks
600.3.A-Z  By region or country, A-Z
Structural geology
601  General works, treatises, and textbooks
601.2  Special aspects of the subject as a whole
601.3.A-Z  Special topics, A-Z
601.3.D37  Data processing
601.3.M38  Mathematics
601.3.S83  Stereographic projection
601.8  Problems, exercises, examinations
602  Stratification
604  Deformation
605  Joints and cleavages
      Faults and folds
Dynamic and structural geology

Structural geology

Faults and folds -- Continued

606  General works, treatises, and textbooks
606.3.A-Z  Special topics, A-Z
606.3.A58  Anticlines
606.3.S96  Synclines
606.5.A-Z  By region or country, A-Z

Geosynclines

607  General works, treatises, and textbooks
607.5.A-Z  By region or country, A-Z

(608)  Metamorphism

Veins, dikes, necks, bosses, laccoliths, and other intrusive bodies

Cf. TN263 Ore deposits

611  General works, treatises, and textbooks
611.5.A-Z  By region or country, A-Z

Impact craters

612  General works, treatises, and textbooks
612.5.A-Z  By region or country, A-Z

Cryptoexplosion structures

613  General works, treatises, and textbooks
613.5.A-Z  By region or country, A-Z

Basins. Sedimentary basins

615  General works, treatises, and textbooks
615.5.A-Z  By region or country, A-Z

Mountain building. Orogeny

621  General works
621.5.A-Z  By region or country, A-Z

625  Effects of plants, animals, and man in geology

Cf. QR103 Geomicrobiology

Geographical divisions

North America

626  General works
626.5.A-Z  By region or state, A-Z

United States

627  General works
627.5.A-Z  By region or state, A-Z

Canada

628  General works
628.5.A-Z  By region, province, or territory, A-Z

Mexico

629  General works
629.5.A-Z  By region or state, A-Z

Central America

630.A1  General works
Dynamic and structural geology
Geographical divisions
North America
  Central America -- Continued
    630.A3-Z  By region, country, or island, A-Z
                Offshore islands generally class with adjacent mainland

West Indies. Caribbean Area
    631.A1  General works
    631.A3-Z  By region, country, or island, A-Z
                Offshore islands generally class with adjacent mainland

South America
    632.A1  General works
    632.A3-Z  By region, country, or island, A-Z
                Offshore islands generally class with adjacent mainland

Europe
    633.A1  General works
    633.A3-Z  By region, country, or island, A-Z
                Offshore islands generally class with adjacent mainland

Asia
    634.A1  General works
    634.A3-Z  By region, country, or island, A-Z
                Offshore islands generally class with adjacent mainland

Africa
    635.A1  General works
    635.A3-Z  By region, country, or island, A-Z
                Offshore islands generally class with adjacent mainland

Australia
    636  General works
    636.5.A-Z  By region, state, or territory, A-Z

New Zealand
    637  General works
    637.5.A-Z  By region or statistical area, A-Z

Pacific islands
    638.A1  General works
    638.A3-Z  By region, country, or island, A-Z
                Offshore islands generally class with adjacent mainland

Arctic regions
    639.A1  General works
    639.A3-Z  By region, country, or island, A-Z
                Offshore islands generally class with adjacent mainland

Antarctica
    639.5.A1  General works
    639.5.A3-Z  By region, country, or island, A-Z
                Offshore islands generally class with adjacent mainland

Stratigraphy
  Prefer stratigraphic to geographical classification
  For historical geology see QE28.3
Stratigraphy -- Continued

640  Periodicals, societies, congresses, serial publications
645  Nomenclature, terminology, notation, abbreviations
      Class here general works as well as works on the nomenclature
      of particular regions, countries, etc.
651  General works, treatises, and textbooks
651.5 Cyclostratigraphy
652  Data processing
652.5 Stratigraphic correlation
652.55.A-Z General works
      By region or country, A-Z
Pre cambrian
653  General works
653.3 Archaean
653.5 Proterozoic
Paleozoic
654  General works
(655)  Algonkian. Huronian. Precambrian in general
      see QE653
656  Cambrian
660  Ordovician
       Silurian
661  General works
(662)  Lower (Ordovician)
      see QE660
(663)  Upper (Silurian)
      see QE661
665  Devonian
       Carboniferous
671  General works
672  Mississippian
673  Pennsylvanian
      Cf. TN799.9+ Coal
673.5  Permo-Carboniferous
674  Permian
Mesozoic
675  General works
       Triassic
676  General works
       Lower
677  Middle
678  Upper
       Jurassic
681  General works
682  Lower
683  Middle
684  Upper
Stratigraphy
Mesozoic -- Continued
Cretaceous

685 General works
686 Lower
687 Middle
688 Upper
689 Cretaceous-Tertiary boundary

Cenozoic
690 General works
Tertiary

691 General works
Paleogene
691.5 General works
692 Paleocene
692.2 Eocene
692.8 Eocene-Oligocene boundary
693 Oligocene
Neogene
693.5 General works
694 Miocene
695 Pliocene
695.5 Pliocene-Pleistocene boundary
Quaternary

696 General works
Pleistocene. Glacial epoch
697 General works
698 Cause of the glacial epoch
699 Holocene, Recent
Geological climate see QE698
Paleoclimatology see QC884+

Paleontology
701 Periodicals, societies, congresses, serial publications
702 Collected works (nonserial)
703 Dictionaries and encyclopedias
Communication of information
704 General works
704.2 Information services
704.3 Computer network resources
Including the Internet

History
705.A1 General works
705.A2-Z By region or country, A-Z

Biography
707.A2 Collective
Including directories
Paleontology

Biography -- Continued

707.A3-Z  Individual, A-Z
  e.g.
707.T4   Teilhard de Chardin, Pierre
707.Z8   Zittel, K.A.

Early works
709  Through 1790
710  1791-1830

General works, treatises, and textbooks
  Including stratigraphic paleontology
711  1831-1969
711.2  1970-2000
711.3  2001-

713  Comprehensive systematic works
  Including both zoological and botanical works
714  Pictorial works and atlases
714.2  Paleoart
  Including paleontological illustration
714.3  Popular works
714.5  Juvenile works
714.7  Paleontology as a profession. Vocational guidance
715  Study and teaching

Museums. Exhibitions
  Class catalogs of special subjects with the subject, e.g. British Museum catalog of fossil fishes in QE851

716.A1  General works
716.A2-Z  By region or country, A-Z
  Subarrange each country by Table Q5

718  Collection and preservation
  Class here general works on collection and preservation of fossils
  For works on collection by stratigraphic division see QE724+
  For works on collection by geographic division see QE743+
  For works on collection and preservation of individual fossils see QE767

Micropaleontology
  For fossil biomolecules see QP517.F66

719  General works
719.5  Prokaryotes. Bacteria
719.6  Protista
  Cf. QE771+ Protozoa
  Cf. QE955 Algae

719.8  Paleobiology
  Cf. QE721.2.E85 Evolutionary paleobiology

246
Paleontology -- Continued

Paleoecology
720
    General works
720.2.A-Z
    By region or country, A-Z
720.5
    Ichnology. Trace fossils
721
    Special aspects of the subject as a whole
721.2.A-Z
    Special topics, A-Z
721.2.D37
    Data processing
721.2.E85
    Evolutionary paleobiology
721.2.E87
    Evolutionary paleoecology
721.2.E97
    Extinction
721.2.F6
    Fossilization. Taphonomy
721.2.M63
    Models and modelmaking
721.2.P24
    Paleobiogeography
721.2.P26
    Paleontological excavations
    For geographical divisions see QE743+
721.2.P3
    Paleotemperatures
721.2.S7
    Statistical methods
    Taphonomy see QE721.2.F6
721.2.V3
    Variation
723
    Addresses, essays, lectures
    Stratigraphic divisions (General and zoological)
    Corresponding classes for stratigraphic geology in QE653+
724
    General works
724.5
    Proterozoic
    Paleozoic
725
    General works
726
    Cambrian
726.2
    Ordovician
727
    Silurian
728
    Devonian
    Carboniferous
    General works
729.2
    Mississippian
729.3
    Pennsylvanian
730
    Permian
    Mesozoic
731
    General works
732
    Triassic
733
    Jurassic
734
    Cretaceous
734.5
    Cretaceous-Tertiary boundary
    Cenozoic
735
    General works
    Tertiary
736
    General works
Paleontology
Stratigraphic divisions (General and zoological)
Cenozoic
   Tertiary -- Continued
      Paleogene
         736.5                  General works
         736.8                  Paleocene
         737                   Eocene
         738                   Oligocene
      Neogene
         738.5                  General works
         739                   Miocene
         740                   Pliocene
      Quaternary
         741                  General works
         741.2                  Pleistocene
         741.3                  Holocene, Recent
         742                  Amber fauna and flora
Geographical divisions (General and zoological)
   Prefer the stratigraphic divisions above to geographical divisions
         743                  General works
         743.5                  Ocean bottom
         744                  Arctic regions
      North America
         745                  General works
      United States
         746                  General works
         747.A-Z                 By region or state, A-Z
         748.A3-Z              Offshore islands generally class with adjacent mainland
      Canada
         748.A1                  General works
         748.A3-Z              Offshore islands generally class with adjacent mainland
      Mexico
         749.A1                  General works
         749.A3-Z              Offshore islands generally class with adjacent mainland
      West Indies and Bermuda
         750.A1                 General works
         750.A3-Z            Offshore islands generally class with adjacent mainland
      Central America
         751.A1                 General works
         751.A3-Z            Offshore islands generally class with adjacent mainland
      South America
         752.A1                 General works

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Paleontology
Geographical divisions (General and zoological)
South America -- Continued
752.A3-Z
By region, country, or island, A-Z
Offshore islands generally class with adjacent mainland
Europe
753
General works
754
Great Britain
755.A-Z
Other regions or countries, A-Z
Asia
756.A1
General works
756.A3-Z
By region, country, or island, A-Z
Offshore islands generally class with adjacent mainland
Africa
757.A1
General works
757.A3-Z
By region, country, or island, A-Z
Offshore islands generally class with adjacent mainland
Australia
758.A1
General works
758.A3-Z
By region, state, or territory, A-Z
Offshore islands generally class with adjacent mainland
758.5
New Zealand
759.A-Z
Pacific islands, A-Z
Arctic regions see QE744
760
Antarctica
Paleozoology
760.8
Periodicals, societies, congresses, serial publications
761
General works, treatises, and textbooks
763
Popular works
765
Juvenile works
766
Marine animals
767
Plankton
For stratigraphic divisions see QE724+
For geographical divisions see QE743+
Invertebrates
770
General works, treatises, and textbooks
Protozoa
771
General works, treatises, and textbooks
772
Foraminifera
773
Radiolaria
774.A-Z
Other Protozoa, A-Z
(774.D5)
Dinoflagellates
see QE955
774.F5
Flagellata. Mastigophora
774.P6
Polycystida
774.T5
Thecamoebae. Testacea
774.T55
Tintinnida
Paleozoology
Invertebrates -- Continued
775          Porifera (Sponges)
           Cnidaria
777             General works, treatises, and textbooks
778             Anthozoa (Corals)
779                  Hydrozoa. Stromatoporoidea
                        For Graptolithina see QE840.5
780             Scyphozoa
                        Including Scyphomedusae and Conulata
780.5          Ctenophora
Echinodermata
781             General works, treatises, and textbooks
782             Crinozoa. Crinoidea
783.A-Z          Other divisions, A-Z
783.A7            Asteroidea (True starfish)
783.B6            Blastoidea
783.C9            Cystoidea
783.D5            Diploporita
783.E2            Echinoidea
783.E3            Edrioasteroidea
783.H7            Holothuroidea
783.O6            Ophiuroidea
783.P3            Paracrinioidea
783.S8            Stelleroidea
783.S89          Stylophora
791          Worms and other vermiform invertebrates
Brachiopoda
796             General works, treatises, and textbooks
797.A-Z          Systematic divisions, A-Z
797.A65            Articulata
797.A69            Athyrididae
797.A7            Atrypidae
797.C95           Cyrtinidae
797.D3            Delthyrididae
797.D5            Dielasmatidae
797.D6            Discinidae
797.I5            Inarticulata
797.K5            Kingenidae
797.L7            Lingulidae
797.O2            Obolidae
797.O7            Orthida
797.O75           Orthidae
797.P3            Paterinidae
797.P39           Pentamerida
797.P4            Pentameridae
797.P5            Playstrophinae
Paleozoology
  Invertebrates
  Brachiopoda
    Systematic divisions, A-Z -- Continued
    797.P9                Productidae
    797.R5                Rhynchonellida
    797.S4                Septirhynchiidae
    797.S7                Spiriferidae
    797.S8                Stringocephalidae
    797.S9                Strophomenida
    797.T29                Terebratulida
    (797.T3)                Terebratulidae
      see QE797.T29
    797.T5                Thecidellinidae
    797.T8                Trimerellidae
    797.Z4                Zeilleriidae

Bryozoa. Polyzoa
    798             General works, treatises, and textbooks
    799.C5                Cheilostomata
    799.C7                Cryptostomata
    799.C8                Ctenostomata
    799.C9                Cyclostomata
    799.E95                Expletocystida
    799.G95                Gymnolaemata
    799.M6                Monticuliporidae
    799.S74                Stenolaemata
    799.T7                Trepostomata

Mollusca
    801             General works, treatises, and textbooks

Cephalopoda
    806             General works, treatises, and textbooks
    807.A25                   Actinoceratidae
    807.A5                   Ammonoidea
    807.B4                   Belemnitida
    807.C65                   Clymeniida
    807.C7                   Coleoidea
    807.D5                   Dibranchiata
      Ecdyceras see QE807.H4
    807.E4                   Ellesmeroceratidae
    807.E5                   Endoceratoidea
    807.G56                   Goniatitidae
    807.H4                   Hebetoceratidae

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Paleozoology
  Invertebrates
  Mollusca
  Cephalopoda
  Systematic divisions, A-Z -- Continued

807.L3                   Lamellorthoceratidae
807.L7                   Liparoceratidae
807.L98                  Lytoceratidae
807.N4                   Nautiloidea
807.O8                   Orthoceratidae
807.P69                  Placenticeratidae
807.S3                   Salterellidae
807.S4                   Sepiida
807.W8                   Wutinoceratidae

Gastropoda
808                General works, treatises, and textbooks
809.A-Z                Systematic divisions, A-Z
809.A18                   Actaeonellidae
809.A2                   Actaeonidae
809.A72                   Archaeogastropoda
809.B8                   Buccinidae
809.C4                   Ceratopeidae
809.C48                  Columbellidae
809.C52                  Conidae
809.C9                   Cypraecidae
809.E55                   Eotomariidae
809.E64                   Epitoniidae
809.E9                   Euomphalidae
809.F3                   Fasciolariidae
809.M25                  Macluritidae
809.M4                   Mesogastropoda
809.M8                   Murchisoniata
809.M85                  Muricidae
809.N3                   Nassariidae
809.N32                  Naticidae
809.N45                  Neritidae
809.O44                  Olividae
809.O6                   Opisthobranchia
809.P5                   Platyceratidae
809.P7                   Prosobranchia
809.P8                   Pteropoda
809.P9                   Pulmonata
809.P95                  Pyramidellidae
809.T5                   Thaididae
809.T88                  Turridae
809.T9                   Turritellidae
809.V2                   Valencienniidae

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Paleozoology
Invertebrates
Mollusca
Gastropoda
Systematic divisions, A-Z -- Continued
809.V3                   Vasidae
809.V7                   Volutidae
809.Z9                   Zonitidae

Bivalvia. Lamellibranchia. Pelecypoda
811                General works, treatises, and textbooks
812.A8                   Arcidae
(812.A84)                   Astartidae
                                   see QE812.V45
812.B83                   Buchiidae
812.C3                   Cardiidae
812.C35                   Carditidae
812.C5                   Chondrodonntidae
812.C6                   Conocardiidae
                                   Cypricardiacea see QE812.T34
812.D5                   Diceratidae
812.D7                   Dreissenidae
812.G7                   Grammysiidae
812.G78                   Gryphaeidae
812.H34                   Halobiidae
812.H57                   Hippuritidae
812.H573                   Hippuritoida (Rudists)
812.I5                   Inoceramidae
                                   Leptonacea see QE812.V45
812.M2                   Mactridae
812.M48                   Megalodontacea
812.M6                   Monotidae
812.M9                   Myalinidae
812.M94                   Mytilidae
812.N6                   Noetiidae
812.N8                   Nucloidae
812.O8                   Ostreidae
812.O87                   Ostreoida
812.P38                   Pectinacea
812.P4                   Pectinidae
812.P48                   Pholadidae
812.P5                   Pholadomyoida
812.P65                   Praeheterodonta
812.P7                   Pterinidae
812.R33                   Radiolitidae
(812.R8)                   Rudista
                                   see QE812.H573
Paleozoology
Invertebrates
Mollusca
Bivalvia. Lamellibranchia. Pelecypoda
Systematic divisions, A-Z -- Continued

812.S6                  Solemyidae
812.S62                 Solemyoida
812.T3                  Tancrediidae
812.T34                 Teleodesmacea
812.T37                 Tellinidae
812.T4                  Teredinidae
(812.T7)                Trigoniiidae
                         see QE812.T74
812.T74                 Trigonioidea
812.U6                  Unionidae
812.V4                  Veneridae
812.V45                 Veneroida
813                     Scaphopoda
814                     Rostroconchia

Arthropoda
815                     General works, treatises, and textbooks
                         Crustacea. Mandibulata
816                     General works, treatises, and textbooks
817.A6                  Amphipoda
817.A7                  Arthrostraca
817.B7                  Branchiopoda
817.C5                  Cirripedia
817.C6                  Conchostraca
817.C7                  Copepoda
817.D3                  Decapoda
817.E5                  Entomostraca
817.I8                  Isopoda
817.L5                  Leptostraca
817.M3                  Malacostraca
817.O8                  Ostracoda
                         Phyllopoda see QE817.B7
817.S3                  Schizopoda
817.S8                  Stomatopoda

Protarthropoda. Trilobitomorpha
821                     General works, treatises, and textbooks
823.A35                 Agnostida
823.C6                  Corynexochida
823.M3                  Marrellidae
823.P4                  Pentastomida
823.P5                  Phacopida
Paleozoology
Invertebrates

Arthropoda
Proarthropoda. Trilobitomorpha
Systematic divisions, A-Z -- Continued

823.P53 Phillipsiidae
823.P75 Proetida
823.P76 Proetidae
823.P79 Ptychopariida
823.R4 Redlichiiida
823.T2 Tardigrada

Chelicerata. Merostomata. Arachnida
825 General works, treatises, and textbooks
826.A-Z Systematic divisions, A-Z
826.A2 Acarina (Acari)
826.A6 Araneida (Araneae)
826.C5 Chernetidae (Pseudoscorpiones)
826.E8 Eurypterida
826.O63 Opiliones
826.P3 Pedipalpi
(826.P5) Phalangida
    see QE826.O63
826.S4 Scorpionida
826.S6 Solifugae
826.X5 Xiphosurida

Myriapoda
828 General works, treatises, and textbooks
829.C5 Chilopoda
829.D5 Diplopoda

Hexapoda. Insects
831 General works, treatises, and textbooks
832.A-Z Systematic divisions, A-Z
832.A53 Anisoptera (Dragonflies)
832.A55 Anoplura
832.B55 Blattaria (Cockroaches)
832.C6 Coleoptera (Beetles)
832.C63 Collembola (Springtails)
832.D47 Dermaptera (Earwigs)
832.D6 Diptera (Flies, midges, mosquitoes)
832.E52 Embioptera
832.E65 Ephemeroptera (Mayflies)
832.H4 Hemiptera (True bugs)
832.H65 Homoptera
832.H9 Hymenoptera (Ants, bees, wasps)
832.I8 Isoptera (Termites)
832.L5 Lepidoptera (Butterflies and moths)
Paleozoology
  Invertebrates
    Arthropoda
      Hexapoda. Insects
        Systematic divisions, A-Z -- Continued
        832.M34  Mallophaga (Biting lice)
        832.M43  Mecoptera (Scorpionflies)
        832.N5  Neuroptera
        832.O36  Odonata
        832.O7  Orthoptera
        832.P45  Phasmatoptera (Stick insects)
        832.P55  Plecoptera (Stoneflies)
        832.P83  Psocoptera (Book lice)
        832.S47  Siphonaptera (Fleas)
        832.S87  Strepsiptera
        832.T5  Thysanoptera (Thrips)
        832.T8  Trichoptera (Caddisflies)

Chordata
        Pterobranchia. Graptolithina

Vertebrates
  841  General works, treatises, and textbooks
  842  Juvenile works
  845  Fossil footprints
  846  Fossil teeth
  847  Amniotes
      Fishes
        851  General works, treatises, and textbooks
        851.2  Ichthyoliths
        852.A25  Acipenseriformes
        852.A33  Agnatha
        852.A4  Amiiformes
        852.A5  Anaspida
        852.A53  Anguilliformes
        852.A7  Arthrodira
        852.B47  Beryciformes
        852.C48  Chimaeriformes
        852.C52  Chondrichthyes
        852.C55  Clupeiformes
        852.C58  Coelacanthiformes
        852.C6  Coelolepida
        852.C7  Crossopterygii
        852.C95  Cypriniformes
        852.D5  Dipnoi
        852.D7  Drepanaspidae
        852.E55  Edestidae
Paleozoology
Chordata
Vertebrates
  Systematic divisions, A-Z -- Continued

(852.E6) Elasmobranchii
  see QE852.C52
852.E65 Elopiformes
852.G26 Gadiformes
  Ganoidei see QE852.S4
852.G37 Gasterosteiformes
852.G65 Gonorynchiformes
852.H4 Heterostraci
(852.H7) Holoccephali
  see QE852.C48
852.I35 Ichthyodectiformes
852.L35 Lamniformes
  Cf. QL89.2.C37 Carcharocles megalodon
852.L45 Leptolepiformes
852.O45 Osteichthyes
852.O5 Osteostraci
852.P3 Palaeonisciformes
852.P4 Perciformes
852.P45 Pholidophoriformes
852.P5 Placodermi
Plagiostomi see QE852.C52
852.P8 Ptycholepiformes
852.P9 Pycnodontiformes
852.R35 Rajiformes
852.R4 Redfieldiiformes
852.S2 Salmoniformes
852.S4 Semionotiformes
(852.T2) Teleostei
  see QE852.O45
852.T48 Tetraodontiformes
853 Fossil otoliths

Reptiles
861 General works, treatises, and textbooks
  Dinosaurs
    Class here works on dinosaurs in general
    For works on specific orders of dinosaurs see
    QE862.A+
861.2 Periodicals, societies, congresses, serial publications
861.3 Dictionaries and congresses
861.35 Computer network resources
    Including the Internet
861.4 General works
Paleozoology
Chordata
Vertebrates
Reptiles
Dinosaurs -- Continued

861.5                   Juvenile works
861.6.A-Z                   Special topics, A-Z
861.6.B44                   Behavior
861.6.E35                   Eggs
861.6.E95                   Extinction
861.6.F45                   Flight
861.6.T72                   Tracks
By region or country
United States
861.7                         General works
861.8.A-Z                         By region or state, A-Z
                                Subarrange each state by Table Q4
861.9.A-Z                      Other regions or countries, A-Z
                                Subarrange each country by Table Q4
861.95                   Miscellany and curiosa
862.A-Z                Other systematic divisions, A-Z
862.C36                   Captorhinidae
862.C5                   Chelonia. Testudinata
862.C7                   Cotylosauria
862.C8                   Crocodylia
(862.D4)                   Dicynodontia
                                see QE862.T5
(862.D5)                   Dinosaurs
                                see QE861.2+
862.E9                   Eunotosauridae
862.I2                   Ichthyosauria
862.L2                   Lacertilia
862.N7                   Nothosauria
862.O6                   Ophidia. Serpentes
862.O65                   Ornithischia
                                Ornithosaurus see QE862.P7
862.P3                   Pelycosauria
862.P35                   Phytosauria
862.P37                   Placodontia
862.P4                   Plesiosauria
862.P7                   Pterosauria
                                Pythonomorpha see QE862.L2
862.R5                   Rhynchocephalia
862.S3                   Saurischia
862.S33                   Sauropterygia
Paleozoology
Chordata
Vertebrates
Reptiles

Systematic divisions, A-Z -- Continued

Squamata
Cf. QE862.L2 Lacertilia
Cf. QE862.O6 Ophidia

(862.S8)
Synapsida
see QE861

Thalattosauria

Thecodontia
Therapsida

Amphibians. Batrachia

General works, treatises, and textbooks

Systematic divisions, A-Z

Aistopoda
Anura
Apoda
Branchiosauridae
Caudata

Dissorophidae
Ecaudata see QE868.A5

Ichthyostegalia
Labyrinthodontia
Microsauria
Pelobatidae
Pipidae
Rhachitomi
Rhytidosteidae
Stegocephala see QE868.L3

Birds

General works, treatises, and textbooks

Accipitres
Aepyornithiformes
Alcidae
Anseriformes
Apterygidae
Archaenithes (Sauriurae)

Ardeiformes
see QE872.C53

Casuariiformes
Ciconiiformes
Coccyges see QE872.C9

Coliiformes
Paleozoology
Chordata
Vertebrates
Birds

Systematic divisions, A-Z -- Continued

872.C7  Columbidae
872.C75  Columbidae (Gaviidae)
872.C77  Confuciusornithiformes
872.C8  Coraciiformes
872.C9  Cuculiformes
872.D5  Dinornithiformes
872.E52  Enantiornithiformes
872.G15  Galliformes (Galli)
872.G27  Gastornithiformes
     Gaviidae see QE872.C75
     Gressores see QE872.C53
872.G8  Gruiformes (Ralliformes)
872.O2  Odontognathae (Odontoholcae)
872.O6  Opisthocomidae
872.P2  Passeriformes
872.P4  Pelicaniformes
872.P5  Piciformes
872.P6  Podargidae
872.P65  Prophaethontiformes
872.P7  Psitaciformes
872.P8  Pteroclididae
     Ralliformes see QE872.G8
872.R37  Ratites
872.R4  Rheiformes
     Sauriruae see QE872.A8
872.S4  Sphenisciformes
872.S5  Steatornithes
     Stegandopes see QE872.P4
872.S8  Strigiformes
872.S9  Struthioniformes
     Teratornis see QE872.V9
872.T5  Threskiornithidae (Ibises and spoonbills)
872.T56  Tinamiformes
872.V9  Vulturidae
875  Fossil eggs

Mammals
881  General works, treatises, and textbooks
882.C15  Carnivora
882.C5  Cetacea
882.C8  Chiroptera
882.C84  Cimolesta

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Paleozoology
Chordata
Vertebrates
Mammals

Systematic divisions, A-Z -- Continued

882.C9                   Creodonta
882.D4                   Deltatheridia
882.D45                  Desmostyli
882.D6                   Docodonta
882.E2                   Edentata. Xenerthra
882.E75                  Erinaceomorpha
                                Cf. QE882.I5 Insectivora. Insectivores
882.E86                  Eupantotheria
882.H47                  Herbivora
882.I5                   Insectivora. Insectivores
                                Cf. QE882.E75 Erinaceomorpha
                                Cf. QE882.S67 Soricomorpha
882.L3                   Lagomorpha
882.M25                  Macroscelidea
                                Marsupialia
882.M3                   General works
882.M32                  Dasyuromorphia
882.M33                  Didelphimorphia
882.M34                  Diprotodontia
882.M35                  Microbiotheria
882.M36                  Notoryctemorphia
882.M37                  Paucituberculata
882.M38                  Peramelemorphia
882.M39                  Sparassodonta
882.M6                   Monotremata
882.M8                   Multituberculata
882.N6                   Notoungulata
882.P3                   Pantotheria
882.P45                  Pholidota
882.P5                   Pinnipedia
882.P7                   Primates
                                Cf. GN282+ Human paleontology
882.P8                   Proboscidea
882.R6                   Rodentia
882.S32                  Scandentia
882.S6                   Sirenia
882.S67                  Soricomorpha
                                Cf. QE882.I5 Insectivora. Insectivores
882.T34                  Taeniodonta
(882.T49)                Theria
                                see QE881
Paleozoology
  Chordata
  Vertebrates
  Mammals

  Systematic divisions, A-Z -- Continued

  (882.T5) Tillodontia
           see QE882.C84
  882.T8 Tubulidentata
  882.U2 General works
  882.U3 Artiodactyla
  882.U6 Perissodactyla
  882.U8 Other
           e.g. Dinocera, Toxodonida

  Xenarthra see QE882.E2

Fossils of doubtful affinity or origin

  899 General works
  899.2.A-Z Special groups, A-Z
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  904.A2-Z By region or country, A-Z

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  904.5 Collective
           Including directories
  904.52.A-Z Individual, A-Z
           e.g.
  904.52.S4 Seward, Sir Albert Charles, 1863-1941

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  905 General works, treatises, and textbooks
  906 Juvenile works

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  907 Museums. Exhibitions

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  908.A2-Z By region or country, A-Z
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    919.3  Mississippian
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  920  General works
  921  Triassic
  922  Jurassic
  924  Cretaceous
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  925  General works
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    926  General works
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    927.2  Eocene
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  958  Fungi
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961 Pterophyta. Polypodiophyta (Ferns)
965 Sphenopsida. Equisetophyta
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976 General works
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976.4 Pteridospermales
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978 Cordaitales
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981 Monocotyledons
983 Dicotyledons
989 Plants of unascertained position
990 Coal balls
991 Fossil woods. Fossil trees
992 Fossil leaves
   Palynology
993 General works
993.2 Fossil pollen
996 Fossil spores
996.5 Fossil fruit and seeds
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3
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5
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7
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9
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      Cf. QK5 Botanical expeditions
      Cf. QL5 Zoological expeditions
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      31.H3
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46  Pictorial works and atlases
   Cf. TR721+ Nature photography
46.5  Natural history illustration
47  Elementary textbooks
48  Juvenile works
49  Vocational guidance

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   Cf. QH318.5 Biology fieldwork
50.5  Directories
51  General works
53  Outlines, syllabi. Nature study manuals
54  Problems, exercises, examinations
54.5  Activity programs
55  Experiments
57  Audiovisual aids
58  Nature trails
   Cf. HV1664.N38 Natural history for people with visual disabilities

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60  General works
60.2  Data processing

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61  General works, treatises, and textbooks
63  Instruments and apparatus
68  Vivariums. Terrariums
   Cf. SB417 Glass gardens. Wardian cases

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Aquariums (Public) see QL78+
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   For research serial publications see QH1+
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72  Commercial lists, catalogs, etc.

   Endangered species and ecosystems (General). Habitat conservation. Ecosystem management.
Conservation biology
   Including natural areas, nature reserves, wilderness areas, biosphere reserves, ecological reserves, environmentally sensitive areas
   Cf. GF90+ Landscape assessment
   Cf. GV191.67.W5 Recreational aspects of wilderness areas
   Cf. QH91.8.B6 Marine biology
   Cf. SK351+ Wildlife management areas

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77.A-Z Other regions or countries, A-Z
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77.3.C65 Communication of information
77.3.G46 Gender mainstreaming
77.3.S73 Statistical methods
77.3.T45 Teleology
78 Extinction (Biology)
Cf. QE721.2.E97 Paleontology
Cf. QL88+ Animal extinction
81 Addresses, essays, lectures. Nature books
Cf. GV191.2+ Outdoor life. Outdoor recreation
Cf. QH53 School manuals of nature study
Cf. QH58 Nature trails
Edible plants and animals. Wild food gathering
For cultivated plants and animals see S1+
Cf. QK98.5.A1+ Edible wild plants
Cf. QK617 Edible mushrooms
Cf. SH400+ Seafood gathering
Cf. SH401+ Fishing
Cf. SK1+ Hunting
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Cf. QL351+ Animal classification
83.5 Terminology, notation, abbreviations
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86  Forests
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87  Mountains
87.2  Valleys
87.3  Wetlands
   Including marshes, swamps, moors, bogs, etc.
(87.5)  Moors
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87.7  Prairies. Grasslands
88  Deserts
88.5  Dunes
89  Caves

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   Cf. GB855+ Natural water chemistry

90.A1  Periodicals, societies, congresses, serial publications
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90.15  Popular works
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Cf. QH96.8.P5 Freshwater plankton
Cf. QK933+ Phytoplankton
Cf. QL123 Zooplankton
90.8.T68
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Geographical distribution. Biogeography. Phylogeography

Topographical divisions

America

North America

United States

By region, A-Z -- Continued

104.5.C35                      Champlain, Lake
104.5.C45                      Chesapeake Bay
104.5.C48                      Clinch River (Va. and Tenn.)
104.5.C58                      Colorado Plateau
104.5.C6                      Colorado River (Colo.-Mexico)
104.5.C64                      Columbia Plateau. Columbia River
104.5.C74                      Cross Timbers (Okla. and Tex.)
104.5.C85                      Cumberland Mountains
104.5.D4                      Death Valley (Calif. and Nev.). Death Valley
                                National Park (Calif. and Nev.)
104.5.D44                      Delaware River
104.5.D46                      Delmarva Peninsula
104.5.D48                      Detroit River (Mich. and Ont.)
                                Dismal Swamp see QH105.V8
104.5.E37                      East
104.5.E73                      Erie, Lake
                                Four Corners Region see QH104.5.S6
104.5.F76                      Front Range ( Colo. and Wyo.)
104.5.G68                      Great Basin
104.5.G7                      Great Lakes
104.5.G73                      Great Plains
                                Great Smoky Mountains see QH105.N8
104.5.G84                      Gulf Coast
104.5.H53                      High Plains
104.5.H83                      Hudson River
104.5.H86                      Huron, Lake (Mich. and Ont.)
104.5.K55                      Klamath Mountains (Or. and Calif.). Klamath River
                                Watershed (Or. and Calif.)
104.5.L34                      Lake States
104.5.M24                      Maine, Gulf of
104.5.M39                      Mexican-American Border Region
104.5.M44                      Michigan, Lake
104.5.M45                      Middle Atlantic States
104.5.M47                      Middle West
104.5.M5                      Mississippi River. Mississippi River Valley
104.5.M56                      Missouri River
104.5.N36                      Nanticoke River (Del. and Md.)
104.5.N4                      New England
104.5.N45                      New York Region
104.5.N54                      Niobrara River (Wyo. and Neb.)
104.5.N58                      Northeastern States

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Geographical distribution. Biogeography. Phylogeography

Topographical divisions

America

North America

United States

By region, A-Z -- Continued

104.5.N6  Northwest, Pacific
104.5.N62  Northwestern States
104.5.O58  Ontario, Lake (N.Y. and Ont.)
104.5.O9  Ozark Mountains
104.5.P32  Pacific Coast
104.5.P54  Piedmont Region
104.5.P67  Potomac River
104.5.R33  Red River Valley (Minn. and N.D.- Man.)
104.5.R56  Rio Grande Region
104.5.R6  Rocky Mountains
104.5.S25  San Juan River
104.5.S255  San Luis Valley (Colo. and N.M.)
104.5.S27  Savannah River (Ga. and S. C.)
104.5.S4  Sierra Nevada
104.5.S45  Siskiyou Mountains (Calif. and Or.)
104.5.S5  Snake River
104.5.S58  Sonoran Desert
104.5.S9  Southern States
104.5.S6  Southwest. Four Corners Region
104.5.S85  Superior. Lake
104.5.T46  Tennessee River Valley
104.5.W29  Wasatch Range (Utah and Idaho)
104.5.W4  West (U.S.)
104.5.W47  White Mountains (Calif. and Nev.)
104.5.W48  White Mountains (N.H. and Me.)
104.5.Y44  Yellowstone River
104.5.Y85  Yukon River Valley (Yukon and Alaska)

105.A-.W  By state, A-W

e.g.

105.N8  North Carolina
   Including Great Smoky Mountains
105.V8  Virginia
   Including Dismal Swamp

Canada

106  General works
106.2.A-Z  By region or province, A-Z
   For regions that include both the United States
   and Canada see QH104.5.A+

Latin America

106.5  General works
Geographical distribution. Biogeography. Phylogeography
Topographical divisions
America
Latin America -- Continued

107
Mexico
For regions that include both the United States and
Mexico see QH104.5.A+

Central America

108.A1 General works
108.A2-Z By region or country, A-Z
108.B43 Belize. British Honduras
British Honduras see QH108.B43
108.C6 Costa Rica
El Salvador see QH108.S3
108.G8 Guatemala
108.H6 Honduras
108.N5 Nicaragua
108.P3 Panama
108.S3 El Salvador

West Indies. Caribbean Area

109.A1 General works
109.A2-Z By island or group of islands, A-Z
109.A48 Antigue and Barbuda
109.A5 Antilles, Lesser
109.B3 Bahamas
109.B35 Barbados
Bermuda see QH110
109.B66 Bonaire
109.C38 Cayman Islands
109.C9 Cuba
109.C93 Curaçao
109.D65 Dominica
109.D66 Dominican Republic
109.F74 French West Indies
109.G74 Grenada
109.G8 Guadeloupe
109.H3 Haiti
Hispaniola see QH109.D66
Hispaniola see QH109.H3
109.J5 Jamaica
109.N48 Netherlands Antilles
   Cf. QH109.B66 Bonaire
   Cf. QH109.C93 Curaçao
   Cf. QH109.S22 Saba
   Cf. QH109.S55 Sint Eustatius
   Cf. QH109.S56 Sint Maarten
109.P6 Puerto Rico
Geographical distribution. Biogeography. Phylogeography

Topographical divisions

America

Latin America

West Indies. Caribbean Area

By island or group of islands, A-Z -- Continued

109.S22                      Saba
109.S24                      Saint Kitts and Nevis
109.S25                      Saint Lucia
109.S28                      Saint Vincent and the Grenadines
109.S55                      Sint Eustatius
109.S56                      Sint Maarten
109.T8                      Trinidad and Tobago
109.T82                      Turks and Caicos Islands
109.V55                      Virgin Islands

West Indies, French see QH109.F74

110                Bermuda

South America

111                   General works

By region or country

112                      Amazon River. Amazonia
113                      Argentina
115                      Bolivia
117                      Brazil
119                      Chile
121                      Colombia
123                      Ecuador

For Galapagos Islands see QH198.G3

Guianas

125                      General works
125.2                     French Guiana
125.4                     Guyana (British Guiana)
125.6                     Suriname (Dutch Guiana)
125.85                   Orinoco River (Venezuela and Colombia)
127                      Paraguay
128                      Peru
128.5                    Titicaca Lake (Peru and Bolivia)
129                      Uruguay
130                      Venezuela

Atlantic Ocean islands

132.A1                     General works
132.A2-Z                By island or group of islands, A-Z
132.A9                     Azores

Bermuda see QH110

132.B68                     Bouvet Island

Cabo Verde see QH132.C33

132.C3                     Canary Islands
Geographical distribution. Biogeography. Phylogeography
Topographical divisions
Atlantic Ocean islands
   By island or group of islands, A-Z -- Continued
132.C33                Cape Verde. Cabo Verde
132.F34                Falkland Islands
132.F37                Faroe Islands
132.G73                Greenland
132.M28                Macaronesia
132.M3                Madeira Islands. Salvages Islands
   Salvages Islands see QH132.M3
132.S644                South Georgia Island
132.S646                South Orkney Islands
   West Indies see QH109.A1+

Europe
135             General works
   By region or country
   British Isles. Great Britain
137                   General works
   England
138.A1                      General works
138.A3-Z                      Local, A-Z
   e.g.
138.S4                         Selborne
141                   Scotland
143                   Ireland
143.5                Northern Ireland
144                   Wales
145                   Austria
147                France
   Including the Riviera
149                   Germany
150                Mediterranean Region (General)
   Including Islands of the Mediterranean
151                   Greece
152                   Italy
154                   Malta
157                   Belgium
158                   Luxembourg
159                   Netherlands
   Russia. Soviet Union. Russia (Federation)
161                   General works
   Russia in Asia see QH191
161.5                Belarus
161.6                Moldova
161.7                Ukraine
162                   Poland
Geographical distribution. Biogeography. Phylogeography
Topographical divisions
Europe
   By region or country -- Continued
164        Scandinavia (General)
165        Denmark
              Faroe Islands see QH132.F37
166        Iceland
168        Norway
169        Sweden
171        Spain
              General works
171.2      Balearic Islands
              Canary Islands see QH132.C3
173        Portugal
              For Azores see QH132.A9
175        Switzerland
              Including Alps (General)
177        Balkan Peninsula
              Including Turkey in Europe
              For Turkey in Asia see QH192
178.A-Z    Other European regions or countries, A-Z
178.A47    Albania
178.A53    Andorra
178.A73    Ardennes
178.A85    Atlantic Coast
178.A95    Azov, Sea of (Ukraine and Russia)
178.B9     Bulgaria
178.C28    Carpathian Mountains Region
178.C29    Caspian Sea
178.C33    Caucasus
178.C36    Central Europe
178.C7     Crete
178.C73    Croatia
178.C8     Czechoslovakia. Czech Republic
178.D36    Danube River Valley
178.D54    Dnieper River Watershed
178.D6     Donets Basin (Ukraine and Russia)
178.E88    Estonia
178.F5     Finland
178.H8     Hungary
              Islands of the Mediterranean see QH150
178.I87    Istria
178.J85    Jura Mountains
178.L28    Lapland
178.L34    Latvia
178.L45    Liechtenstein

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Geographical distribution. Biogeography. Phylogeography
Topographical divisions
Europe

By region or country
Other European regions or countries, A-Z -- Continued

178.L5  Lithuania
178.M23  Macedonia (Republic)
178.N67  Mediterranean Region see QH150
178.P53  Pieniny Range (Poland and Slovakia)
178.P97  Pyrenees
178.R55  Rhine River Valley
178.R57  Riga, Gulf of (Latvia and Estonia)
178.R8  Romania
178.S27  San Marino
178.S37  Serbia
178.S65  Slovakia
178.S66  Slovenia
178.T57  Tisza River Valley
178.W47  Western Bug River Region
178.Y8  Yugoslavia
178.5  Eurasia

Asia

179  General works

By region or country

181  China
183  India
183.5  Sri Lanka
184  General works
184.2  Cambodia
184.4  Laos
184.6  Vietnam
185  Malaysia. Malay Peninsula
186  Indonesia
186.5  New Guinea
187  Philippines
188  General works
188.3  Ryuku Islands
189  Iran
190  Kuwait
191  Russia in Asia. Siberia. Russian Far East

Central Asia

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Geographical distribution. Biogeography. Phylogeography
Topographical divisions
Asia

By region or country

Central Asia -- Continued

191.3 General works
191.4 Kazakhstan
191.5 Kyrgyzstan
191.6 Tajikistan
191.7 Turkmenistan
191.8 Uzbekistan
192 Turkey in Asia
192.5 Caucasus

Including Armenia, Azerbaijan, Georgia (Republic)

193.A-Z Other Asian regions or countries, A-Z
193.A34 Afghanistan
193.B35 Bangladesh
193.B48 Bhutan
193.B65 Borneo
193.B7 Brunei
193.B93 Burma. Myanmar

Caspian Sea see QH178.C29

193.C8 Cyprus
193.E18 East Asia
193.G35 Ganges River
193.G62 Gobi Desert
193.G64 Golan Heights
193.H5 Himalayan Mountains
193.I5 Indonesia
193.I7 Iraq
193.I8 Israel. Palestine
193.J6 Jordan
193.K57 Kopet Dag (Turkmenistan and Iran)
193.K6 Korea
193.L42 Lebanon
193.M25 Macau
193.M28 Malacca, Strait of
193.M6 Mongolia

Myanmar see QH193.B93

193.N4 Nepal
193.O5 Oman
193.P28 Pakistan

Palestine see QH193.I8

193.P33 Pamir-Alai Mountains
193.P349 Persian Gulf
193.P35 Persian Gulf Region
193.P352 Persian Gulf States
Geographical distribution. Biogeography. Phylogeography

Topographical divisions

Asia

By region or country

Other Asian regions or countries, A-Z -- Continued

193.Q2           Qatar
193.S28         Saudi Arabia
193.S46        Singapore
193.S59       South Asia
193.S6       Southeast Asia
193.S9        Syria
193.T35         Taiwan
193.T46       Thailand
193.T48       Tien Shan
193.U5       United Arab Emirates
(193.V53)     Vietnam
               see QH184.6
193.Y4       Yemen

Africa

194         General works
195.A-Z      By region or country, A-Z

195.A23    Africa, Central see QH195.C37
195.A233    Africa, Eastern
195.A24    Africa, French-speaking Equatorial
195.A25    Africa, French-speaking West
195.A3     Africa, North
               Cf. QH150 Mediterranean Region
195.A312    Africa, Northeast
195.A323    Africa, Southern
               Africa, Southwest see QH195.N29
               Africa, Sub-Saharan see QH195.S87
               Africa, West see QH195.W46
195.A4     Algeria
195.B6     Botswana
195.B92    Burkina Faso
195.C36    Cameroon
195.C37    Central Africa
195.C38    Central African Republic
195.C45    Chad
195.C46    Chad, Lake
195.C58    Congo (Brazzaville)
195.C6     Congo (Democratic Republic). Zaire
               Côte d'Ivoire see QH195.I9
195.E4     Egypt
195.E76    Equatorial Guinea
195.E8     Ethiopia
Geographical distribution. Biogeography. Phylogeography
Topographical divisions
Africa
By region or country, A-Z -- Continued

195.G3                Gabon
195.G34                Gambia
195.G53                Ghana
195.G84                Guinea
195.G85                Guinea-Bissau
195.I9                Ivory Coast. Côte d'Ivoire
195.K3                Kalahari Desert
195.K4                Kenya
195.L47                Lesotho
195.L7                Liberia
195.M2                Madagascar
195.M47                Malawi
195.M475                Mali
195.M479                Mauritania
195.M4793                Mayumbe
195.M5                Morocco
195.M6                Mozambique
(195.N27)                Namib Desert
    see QH195.N29
195.N29                Namibia. Southwest Africa
195.N49                Niger River
195.N5                Nigeria
195.O38                Okavango River
195.R53                Rift Valley
195.R9                Ruwenzori Mountains
195.R92                Rwanda
195.S3                Sahara
195.S33                Sahel
195.S34                Sao Tome and Principe
195.S36                Senegal
195.S53                Sierra Leone
195.S6                South Africa
195.S67                South Sudan
    Southern Africa see QH195.A323
195.S72                Stanley Pool (Congo (Brazzaville) and Zaire)
195.S87                Sub-Sarahan Africa
195.S9                Sudan
195.S92                Sudan (Region)
195.T28                Tanganyika, Lake
195.T3                Tanzania
Geographical distribution. Biogeography. Phylogeography
Topographical divisions

Africa
By region or country, A-Z -- Continued
195.T53                Togo
195.U4                Uganda
United Arab Republic see QH195.E4
195.V5                Victoria, Lake
195.W46                West Africa
195.Z3                Zambia
195.Z55                Zimbabwe

Indian Ocean islands
196.A1             General works
196.A2-Z                By island or group of islands, A-Z
196.A4                Aldabra Islands
196.C53                Chagos Islands
196.C55                Christmas Island
196.C62                Cocos (Keeling) Islands
196.C64                Comoros
196.H43                Heard Island
196.K3                Kerguelen
Madagascar see QH195.M2
196.M35                Marion Island
196.M38                Mauritius
 Including Rodrigues
196.M39                Mayotte
196.R4                Réunion
 Rodrigues see QH196.M38
196.S2                Saint Paul
196.S4                Seychelles

Australasia
196.8             General works
Australia
197                General works
197.2.A-Z                By state, territory, or region, A-Z
197.5                New Zealand
Pacific Area. Pacific islands
198.A1             General works
198.A2-Z                By island or group of islands, A-Z
198.A44                American Samoa
198.B5                Bismarck Archipelago
198.C3                Campbell Island
198.C65                Cook Islands
198.E53                Enewetak Atoll
198.F3                Fanning Island
198.F55                Fiji
198.F74                French Polynesia
Geographical distribution. Biogeography. Phylogeography
Topographical divisions
Australasia
  Pacific Area. Pacific islands
    By island or group of islands, A-Z -- Continued
  198.G3                   Galapagos Islands
  198.G8                   Guam
  198.H3                   Hawaiian Islands
  198.J64                   Johnston Island
  198.K57                   Kiribati
  198.M18                   Mariana Islands
  198.M2                   Marquesas Islands
  198.M34                   Marshall Islands
  198.M48                   Micronesia
  198.M5                   Midway Islands
  198.N4                   New Caledonia
  198.P4                   Pelew Islands
  198.P57                   Pitcairn Islands
    Including Ducie Atoll, Henderson Island, Oeno Atoll,
    and Pitcairn Island
  Samoa see QH198.W5
  198.S3                   Samoan Islands
  198.S5                   Snares Islands (N.Z.)
  198.S6                   Solomon Islands
  198.S67                   Spratly Islands
  198.T35                   Tahiti
  198.T66                   Tonga
  198.T88                   Tuvalu
  198.V35                   Vanuatu
  198.W5                   Western Samoa. Samoa
(199)              Arctic regions
    see QH84.1
(199.5)             Antarctica
    see QH84.2
    Tropical regions see QH84.5
Microscopy
  201       Periodicals, societies, congresses, serial publications
  202       Collected works (nonserial)
  203       Dictionaries and encyclopedias
  204       History
    General works, treatises, and textbooks
      Including handbooks
      Cf. QH277 Popular works
  205       Through 1969
  205.2     1970-
  206       Study and teaching. Research
Microscopy -- Continued

207  Technique
Cf. QH231+ Preparation and mounting of objects

211  Microscopes
Cf. QC370.5+ Optical instruments

General works, treatises, and textbooks
Class application of microscopic techniques with the subject
to which they are applied, e.g. QE434 Microscopic
analysis of rocks

212.A-Z  Special microscopes, A-Z
Including the use and microscopy of special microscopes

212.A25  Acoustic microscopes
212.A76  Atom-probe field ion microscopes
212.A78  Atomic force microscopes
212.C6   Compound microscopes
212.D5   Dissecting microscopes
212.E4   Electron microscopes
212.F5   Field ion microscopes
212.F55  Fluorescence microscopes
212.I5   Interference microscopes
212.M84  Multiphoton excitation microscopes
212.N43  Near-field microscopes
212.P5   Phase-contrast microscopes
212.P6   Polarizing microscopes
212.P7   Proton microscopes
212.S24  Scanning Auger electron microscopes
212.S28  Scanning electrochemical microscopes
212.S3   Scanning electron microscopes
212.S32  Scanning force microscopes
212.S33  Scanning probe microscopes
212.S34  Scanning transmission electron microscopes
212.S35  Scanning tunneling microscopes
212.T7   Transmission electron microscopes
212.U48  Ultraviolet microscopes
212.X2   X-ray microscopes

213  Accessories and their use
215  Illuminating apparatus
217  Polarizing apparatus
Cf. QH212.P6 Polarizing microscopes

219  Catalogs of apparatus and supplies
221  Chemical microscopy
Cf. QD98.M5 Microchemical analysis

222  Video microscopy
224  Confocal microscopy
Including confocal fluorescence microscopy
Microscopy -- Continued

225  Cryomicroscopy
     Preparation of microscope specimens. Microtechnique

231  General works

233  Microtomy. Sectioning

234  Embedding
     Including specific embedments

235  Fixation

236  Freeze etching

236.2 Freeze fracturing

237  Staining

239  Mounting

251  Photomicrography

255  Microcinematography

261  Pictorial works and atlases
     Microscopic observations (General)

271  Through 1800

273  1801-1969

273.2  1970-

(274)  Microorganisms
     see QR

(275)  Aquatic microorganisms
     see QR105+

277  Popular works

278  Juvenile works

278.5  Recreations
Biology (General)

301 Periodicals, societies, congresses, serial publications

302 Collected works (nonserial)

302.5 Dictionaries and encyclopedias

Communication in biology

303 General works, treatises, and textbooks

Information services

303.15 Directories

303.2 General works, treatises, and textbooks

303.4.A-Z By region or country, A-Z

Subarrange each country by Table Q5

303.5 Computer network resources

303.6 Biological literature. Life sciences literature

304 Authorship

304.5 Terminology, notation, abbreviations

For nomenclature see QH83

History and conditions

305 General works

305.2.A-Z By region or country, A-Z

305.5 Women life scientists. Women biologists

306 Early works through 1860

General works and treatises

307 1861-1969

307.2 1970-

Textbooks

308 Through 1969

308.2 1970-

Elementary

308.5 Through 1969

308.7 1970-

309 Popular works

309.2 Juvenile works

310 Handbooks, tables, formulas, etc.

311 Addresses, essays, lectures

313 Special aspects of the subject as a whole

313.5.A-Z Special topics, A-Z

313.5.F67 Forensic biology

314 Biology as a profession. Vocational guidance
Study and teaching. Research

315  General works
315.25  Teacher training
315.3  Audiovisual aids
315.5  Outlines, syllabi
316  Problems, exercises, examinations
316.4  Activity programs
316.5  Experiments
317  Laboratory manuals
318  Biological illustration
318.5  Fieldwork
    Cf. QH58 Nature trails
    By region or country
    United States
319.A1  General works
319.A2-Z  By region or state, A-Z
320.A-Z  Other regions or countries, A-Z

Biological laboratories and stations
Class here descriptive works, administrative reports, etc.
For scientific contributions (serial) see QH301
Cf. QH90.6+ Aquatic biological laboratories
Cf. QH91.6+ Marine biological laboratories
Cf. QH96.6+ Freshwater biological laboratories

321  General works
    By region or country
    United States
321.5  General works
323.A-Z  Other regions or countries, A-Z
    Subarrange each country by Table Q6
323.2  Safety measures
323.5  Biometry. Biomathematics. Mathematical models
    Cf. QH507 Information theory in biology

Methods of research. Technique. Experimental biology
Cf. QH585+ Cytology

324  General works
324.15  Biological resource centers
    Cf. QH442.4 Gene libraries

Data processing. Bioinformatics
324.2  General works
324.25  Artificial intelligence
324.27  Data mining

Tracers
324.3  General works
324.35.A-Z  Special elements. By chemical symbol, A-Z (Table Q1)
324.4  Germfree life

Instruments and apparatus (General)
Methods of research. Technique
Instruments and apparatus (General) -- Continued

324.42 General works
324.5 Catalogs of apparatus and supplies
324.8 Biological models
324.9.A-Z Other special, A-Z
324.9.A88 Autoclaving
324.9.A9 Autoradiography
324.9.B48 Biophotometry
324.9.B49 Biophysical labeling
324.9.B5 Biotelemetry
324.9.C3 Calorimetry
324.9.C4 Centrifugation
324.9.C7 Cryobiology. Freeze-drying
324.9.D46 Density gradient centrifugation
324.9.E36 Electron paramagnetic resonance
324.9.E38 Electron probe microanalysis
324.9.E4 Electrophoresis
324.9.E44 Ellipsometry
324.9.E5 Enzymatic analysis
(324.9.F38) Flow cytometry
324.9.F4 Fluorescence spectroscopy
324.9.F56 Freeze-drying see QH324.9.C7
324.9.I5 Infrared spectroscopy
324.9.I8 Isolation perfusion
324.9.L37 Lasers
324.9.L5 Liquid chromatography
324.9.L53 Liquid scintillation counting
324.9.M28 Magnetic resonance
324.9.M3 Manometry
324.9.M5 Microprobe analysis
324.9.N48 Neutron scattering
324.9.N8 Nuclear magnetic resonance
324.9.Q35 Quantitative magnetic resonance
324.9.R3 Radioactivation analysis
324.9.S4 Separation
324.9.S53 Spectrophotometry
324.9.S6 Spectroscopy
324.9.S62 Spin labels
324.9.S95 Synchrotron radiation
324.9.T45 Three-dimensional imaging
324.9.X2 X-ray microanalysis
325 Origin and beginnings of life
326 Exobiology
Cf. QB54 Extraterrestrial life
Space biology
   Cf. QK760 Effect of space flight on plants
   Cf. QP82.2.W4 Physiology of weightlessness
   Cf. RC1150+ Human space physiology
   Cf. TL943 Planetary quarantine
   Cf. TL945 Space vehicle sterilization

327       General works
328       Space radiobiology
331       Philosophy of biology
332       Bioethics
   Cf. R724+ Medical ethics
333       Social aspects of biology
341       Nature of life, vital force, etc.
343       Comparison of living and nonliving matter
343.4     Geobiology. Biosphere
            Biogeochemistry
   Cf. QR103 Geomicrobiology
343.7     General works
            Biogeochemical cycles
               Including cycles of individual elements, e.g. carbon cycle,
               nitrogen cycle, etc.
344       General works
344.3.A-Z     By region or country, A-Z
345       General biochemistry of plants and animals
               For works limited to chemical aspects of biological
               materials see QD415+
               For the biochemistry of special substances see QP525+
               Cf. QK861+ Plant biochemistry
               Cf. QP501+ Animal biochemistry
               Cf. QR148 Microbiological chemistry
347       Comparison of plants and animals
349       Miscellany and curiosa
351       Morphology
   Cf. QK640+ Plant morphology
   Cf. QL799+ Animal morphology
352       General works
352.5     Population viability analysis
353       Biological invasions. Introduced organisms
   Cf. QH91.8.B63 Marine biological invasions
Evolution
For classification by organism, see in subclasses QK or QL
Cf. BL263 Religion and science
Cf. QE701+ Paleontology

359 Periodicals, societies, congresses, serial publications
360 Collected works (nonserial)
360.2 Dictionaries and encyclopedias
360.5 Philosophy
360.6 Nomenclature, terminology, notation, abbreviations
361 History
362 Study and teaching. Research
363 Early works through 1860
   Works of Darwin
365.A1 Collected works. By date
365.A2-.Z8 Separate works, A-Z
   The descent of man
365.D2 Editions. By date
365.D25 Selections. By editor
365.D3-.D79 Translations
   Arrange alphabetically by language, then Cutter for translator
365.D8 Criticism and reviews
   The expression of the emotions in man and animals
365.E2 Editions. By date
365.E25 Selections. By editor
365.E3-.E79 Translations
   Arrange alphabetically by language, then Cutter for translator
365.E8 Criticism and reviews
365.O15-.O18 On the origin of species, previous essays
   Essays written before or during the period of the creation of the main work
   On the origin of species
365.O2 Editions. By date
365.O25 Selections. By editor
365.O3-.O79 Translations
   Arrange alphabetically by language, then Cutter for translator, for example:
   365.O5 German
   365.O55 Hungarian
   365.O68 Romanian
   365.O7 Russian
   365.O73 Spanish
365.O8 Criticism and reviews
   The variation of animals and plants under domestication
365.V2 Editions. By date
365.V25 Selections. By editor
Evolution
Works of Darwin
Separate works, A-Z
The variation of animals and plants under domestication -
- Continued
365.V3-.V79 Translations
Arrange alphabetically by language, then Cutter for translator
365.V8 Criticism and reviews
365.Z9 Selections from more than one work. By editor
General works, treatises, and textbooks
366 1861-1969
366.2 1970-
367 Popular works
367.1 Juvenile works
367.3 Critical works
Class here works that argue against the theory of evolution
Cf. BL263 Religion and science
367.5 Phylogenetic relationships
For the evolution of particular animals and groups of animals,
see systematic sections, e.g. QL618.2 Evolution of fishes;
QL708.5 Evolution of mammals
(368) Human evolution
see GN281+
(368.5) Plant evolution (General)
see QK980
369 Miscellany and curiosas
(371) Special aspects of the subject as a whole
see QH371.3.A+
371.3.A-Z Special aspects of the subject as a whole, A-Z
371.3.M37 Mathematical models
371.5 Macroevoolution
372 Coevolution
372.5 Homoplasy
373 Convergence
375 Natural selection
376 Group selection
378 Symbiogenesis
380 Speciation
390 Mutation in evolution. Evolutionary genetics
395 Heterochrony
398 Punctuated equilibrium
Variation
401 General works
(405) Statistical methods
see QH323.5
Evolution

Variation -- Continued

(406) Plants

see QK983

408 Animals
408.5 Phenetics
409 Clines
411 Experimental study

Hybridization. Hybrid zones

421 General works

(423) Plants

see QK982

425 Animals

Class particular animals in QL or SF
Cf. SF105+ Animal breeding

Genetics

Class here general and experimental works in genetics
For studies made on the genetic constitution of an organism in
order to elucidate its total function, see systematic divisions in
QK, QL, or QR. For genetic studies for improvement of breed
or variety, see the plant or animal in S
For endocrine genetics see QP187.5
For immunogenetics see QR184+

426 Periodicals, societies, congresses, serial publications
426.5 Collected works (nonserial)
427 Dictionaries and encyclopedias

History

428 General works
428.2.A-Z By region or country, A-Z

Biography

429 Collective

   e.g.
   Mendel see QH31.M45

429.5 Directories

General works, treatises, and textbooks

430 General works

431 Human genetics (General)
   Cf. HQ750+ Eugenics
   Cf. RB155+ Medical genetics

432 Animal genetics (General)
   Cf. QH408 Animal variation
   Cf. SF105+ Animal breeding

(433) Plant genetics (General)

see QK981

434 Microbial genetics (General)
   Cf. QR73 Variation

297
Genetics -- Continued

436  Pictorial works and atlases
437  Popular works
437.5  Juvenile works
438  Addresses, essays, lectures
438.4.A-Z  Special aspects of the subject as a whole, A-Z
438.4.B55  Biochemical markers. Genetic markers
438.4.C45  Chemogenomics
  Genetic markers see QH438.4.B55
438.4.M3  Mathematical models
438.4.M33  Mathematics
438.4.S73  Statistical methods
438.5  Heredity and environment. Nature and nurture
438.7  Social and moral aspects
  Sociogenomics see QH457.5
439  Vocational guidance
  Study and teaching. Research
440  General works
440.2  Outlines, syllabi
440.3  Problems, exercises, examinations
440.4  Experiments
440.5  Laboratory manuals
  Laboratories
440.7  General works
440.8.A-Z  By region or country, A-Z
  Subarrange each country by Table Q6
441  Technique
441.2  Data processing
441.5  Cytogenetics
  Cf. QH600+ Chromosomes
  Cf. QP620+ Nucleic acids
  Molecular genetics. Genetic engineering
  Cf. QK981.5 Plant genetics
  Cf. RB155+ Medical genetics
  Cf. TP248.6 Genetic engineering applications
442  General works
442.2  Cloning
442.3  Gene targeting
442.4  Gene libraries
442.6  Transgenic organisms. Transgenic animals
  Recombination mechanisms
443  General works
444  Segregation. Assortment
  Crossing over
445  General works
  Linkage and genetic mapping
445.2  General works
Genetics
Recombination mechanisms
Crossing over
  Linkage and genetic mapping -- Continued
445.5
  Sex linkage
445.7
  Mosaicism
Genes, Alleles. Genome
  Cf. QP98 Blood groups
447
  General works
447.2
  Dominance and recessiveness
447.5
  Conversion
Polymorphisms
  General works
447.6
  Special polymorphisms, A-Z
447.63.F43
  Fibrinogen polymorphisms
447.63.H45
  Hemoglobin polymorphisms
447.63.S56
  Single nucleotide polymorphisms
Lethal factors see QH463.5
447.8.A-Z
  Individual genes and genetic elements, A-Z
447.8.A28
  Actin genes
447.8.B46
  Beta-glucuronidase genes
447.8.H65
  Homeobox genes
  Ir genes see QR184.4
447.8.O43
  Olfactory receptor genes
  Oncogenes see RC268.42
447.8.R47
  Reporter genes
447.8.S45
  Selfish genetic elements
Recombination in microorganisms
448
  General works
448.2
  Conjugation
448.3
  Transduction
448.4
  Transformation
Genetic regulation. Gene expression
450
  General works
450.2
  Genetic code. Transcription
450.25
  RNA editing
450.26
  RNA interference
450.3
  Gene amplification
450.4
  Overexpression
450.5
  Translation. Assembly
450.6
  Post-translational modification of proteins
450.7
  Epistasis
451
  Cell fusion. Cell hybridization
452
  Cytoplasmic inheritance
452.2
  Microsatellites
Mobile genetic elements
  Cf. QH462.I48 Insertion elements, DNA
Genetics

Mobile genetic elements -- Continued

452.3 General works
452.5 Episomes
452.6 Plasmids
   Cf. QR76.6 Bacterial plasmids
452.7 Quantitative genetics
452.8 In situ hybridization
453 Developmental genetics
455 Population genetics
   Cf. GN289+ Physical anthropology
   Cf. HB848+ Population (Economic theory)
456 Ecological genetics
457 Behavior genetics
   Cf. BF341+ Heredity of consciousness
   Cf. BF699+ Genetic psychology
457.5 Sociogenomics

Mutations
   Cf. QH390 Mutation in evolution
460 General works
461 Genetic mutation. Polyplody. Aneuploidy
   Chromosomal mutation
462.A1 General works, treatises, and textbooks
462.A2-Z By type, A-Z
462.B7 Breakage
462.D4 Deletion
462.D8 Duplication
462.G46 Gene fusion
462.I48 Insertion elements, DNA
462.I5 Inversion
462.N65 Nondisjunction
462.T7 Translocation
463 Gene mutation
463.13.A-Z By type, A-Z
463.13.I57 Insertional mutagenesis
463.2 Nonsense mutation
463.5 Lethal factors
464 Spontaneous mutation
   Induced mutation. DNA damage
465.A1 General works, treatises, and textbooks
465.A2-Z By agent, A-Z
465.C3 Caffeine
465.C5 Chemicals (General)
465.C6 Colchicine
Genetics
Mutations
Induced mutation. DNA damage
By agent, A-Z -- Continued
465.D55 DNA. Polynucleotides
465.N4 Neutrons
465.O44 Oil shale extracts
Polynucleotides see QH465.D55
465.R3 Radiation (General)
465.U4 Ultraviolet rays
465.X2 X-rays
465.5 Site-specific mutagenesis
467 Genetic repair mechanisms
468 Antimutagens
470.A-Z Experimental organisms, A-Z
Prefer classification by genetic aspect studied
470.A85 Aspergillus
470.C6 Corprinus
470.C64 Corn
470.D7 Drosophila
470.E8 Escherichia
Maize see QH470.C64
470.M52 Mice
470.N4 Neurospora
470.O35 Oenothera
470.S23 Saccharomyces cerevisiae
470.T6 Tobacco mosaic virus
470.T68 Tradescantia
470.T7 Trillium
Reproduction
Cf. QK825+ Plants
Cf. QP251+ Animals
471 General works, treatises, and textbooks
Asexual
Cf. QH442.2 Cloning (Genetic engineering)
475 General works, treatises, and textbooks
477 Fission
479 Budding
Sexual
481 General works, treatises, and textbooks
485 Fertilization
487 Parthenogenesis
489 Alternation of generations
Development. Morphogenesis
Including tissue remodeling
Cf. QK665 Plant embryology
Cf. QL951+ Animal embryology
Development. Morphogenesis -- Continued

491 General works
492 Evolutionary developmental biology
499 Regeneration
   Cf. QK840 Plant physiology
   Cf. QP90.2 Animal physiology

Life
   Cf. QK710+ Plants
   Cf. QP1+ Animals
501 General works, treatises, and textbooks
   Biochemistry see QH345
504 Biomagnetism
   Cf. QP82.2.M3 Physiological effects of magnetic fields
   Cf. QP345 Human magnetic fields
505 Biophysics
506 Molecular biology
   Cf. QP187.3.M64 Molecular endocrinology
507 Homeostasis see QP90.4
508 Information theory in biology
509 Biological control systems
509.5 Bioelectronics
510 Bioenergetics
510.5 Bioacoustics
511 Growth
512 Biomineralization
513 Biomechanics
   Cf. QP303 Animal mechanics. Human mechanics
513.5 Fluid dynamics
514 Movement. Tropisms. Taxes
   Including attachment mechanisms
515 Photobiology
   Cf. QH641 Bioluminescence
   Cf. QP517.P45 Photobiocemistry
516 Thermobiology
517 Electrophysiology
   Cf. QP341 Animals
   Cf. QP517.B53 Bioelectrochemistry
518 Respiration
518.5 Anaerobiosis
519 Nutrition
521 Metabolism
523 Dormancy
524 Cryptobiosis. Anhydrobiosis
527 Chronobiology. Periodicity. Biorhythms
   Cf. QP84.6 Physiology

302
Life -- Continued
528
Degeneration
528.5
Longevity
Cf. QP85 Animals
529
Senescence. Aging
530
Death
Cf. QH671 Cell death
Cf. QP87 Animal death
530.5
Biodegradation
Cf. QP517.B5 Animals
Cf. QR135+ Microbial degradation
531
Miscellany and curiosa
Ecology
Class here works on general ecology and general animal ecology.
For works on ecology of individual animals and groups of
animals, see the animal
For human ecology see GF1+
For ecology of a particular topographic area see QH101+
For plant ecology see QK900+
Cf. BL65.E36 Ecology and religion
Cf. HX550.E25 Communism and ecology
Cf. QH546 Ecological genetics
540
Periodicals, societies, congresses, serial publications
540.3
Collected works (nonserial)
540.4
Dictionaries and encyclopedias
540.5
Philosophy
540.6
Nomenclature, terminology, notation, abbreviations
540.7
Classification
History
540.8
General works
540.83.A-Z
By region or country, A-Z
Biography see QH26+
541
General works, treatises, and textbooks
541.13
Popular works
541.14
Juvenile works
541.142
Handbooks, tables, formulas, etc.
541.145
Addresses, essays, lectures
541.15.A-Z
Special aspects of the subject as a whole, A-Z
541.15.A9
Autoradiographic techniques
Biodiversity see QH541.15.B56
541.15.B54
Biological assay
541.15.B56
Biological diversity. Biodiversity
For local, see QH84.1+
For physiographic divisions see QH84.8+
Cf. QH75+ Biodiversity conservation
Cf. QH541.15.S64 Species diversity
Cf. QK46.5.D58 Plant diversity

303
Ecology
Special aspects of the subject as a whole, A-Z -- Continued

541.15.B84          Buffer zones
541.15.C44          Chemical ecology
541.15.C55          Closed ecological systems
541.15.C67          Corridors
541.15.D6           Documentation
541.15.E19          Ecohydrology
541.15.E22          Ecological assessment (Biology)
541.15.E24          Ecological heterogeneity
541.15.E245         Ecological integrity
541.15.E248         Ecological zones
541.15.E25          Economic ecology
541.15.E26          Ecophysiology
                      Cf. QP82+ Animal ecophysiology
541.15.E265         Ecosystem health
541.15.E267         Ecosystem services
541.15.E27          Ecotones
                      Including land-water ecotones
541.15.E45          Electronic data processing
541.15.F66          Food chains. Food webs
541.15.F73          Fragmented landscapes
541.15.G46          Geographic information systems
541.15.H34          Habitat suitability index models
                      Health, Ecosystem see QH541.15.E265
                      Heterogeneity, Ecological see QH541.15.E24
541.15.I5           Indicators (Biology)
541.15.K48          Keystone species
541.15.L35          Landscape ecology
                      For local see QH101+
541.15.M23          Macroecology
541.15.M26          Mapping
541.15.M3           Mathematical models
                      Cf. QH541.15.H34 Habitat suitability index models
541.15.M34          Mathematics
541.15.M63          Molecular ecology
541.15.M64          Monitoring
541.15.N84          Null models
541.15.R34          Radioactive tracers
541.15.R4           Remote sensing
541.15.R45          Restoration ecology
                      For local see QH101+
                      For specific types of environments see QH541.5.A+
541.15.R57          Risk assessment
541.15.S5           Simulation methods
541.15.S62          Spatial ecology
Ecology
Special aspects of the subject as a whole, A-Z -- Continued

541.15.S64  Species diversity
541.15.S68  Stable isotopes
541.15.S72  Statistical methods
541.15.S95  Surveys
   Including general habitat surveys
541.15.T68  Toxicity testing
   Zones, Ecological see QH541.15.E248
Communication in ecology

541.18  General works
541.183  Information services
541.185  Computer network resources
   Including the Internet
Study and teaching. Research

541.2  General works
541.215  Outlines, syllabi
   Special teaching methods and aids
541.22  General works
541.23  Audiovisual aids
541.235.A-Z  Other methods, A-Z
541.235.G34  Games
541.24  Experiments
541.25  Laboratory manuals
   By region or country
   United States
541.26  General works
541.262.A-Z  By region or state, A-Z
541.264.A-Z  Other regions or countries, A-Z
Ecological laboratories and stations

541.27  General works
541.273.A-Z  By region or country, A-Z
541.28  Technique
541.29  Applied ecology
   Cf. QH541.15.M64 Monitoring
   Cf. QH541.15.R45 Restoration ecology

541.3  Biological productivity
   Cf. QK909.5 Vegetation productivity
541.5.A-Z  By type of environment, A-Z
   For local see QH101+
   Abyssal zone see QH541.5.D35
   Antarctica see QH84.2
   Aquatic see QH541.5.W3
   Arctic regions see QH84.1
541.5.A74  Arid regions
541.5.B63  Bogs
   Boreal forests see QH541.5.T3
Ecology
By type of environment, A-Z -- Continued
Brackish waters see QH541.5.E8
Braided rivers see QH541.5.S7
541.5.C24 Canals
541.5.C3 Caves
Cerrados see QH541.5.P7
541.5.C5 Chaparral
541.5.C6 Cities. Urban ecology
541.5.C62 Cliffs
541.5.C63 Cloud forests
541.5.C65 Coasts
541.5.C7 Coral reefs and islands. Reefs
541.5.C73 Coulees
541.5.C95 Cypress swamps
541.5.D35 Deep-sea zone. Abyssal zone
Including hydrothermal vents
541.5.D4 Deserts
541.5.E8 Estuaries. Brackish waters
541.5.F56 Fjords
Floodplains see QH541.5.V3
541.5.F6 Forests
Including forest canopy ecology and old growth forest ecology
Cf. QH541.5.C63 Cloud forests
Cf. QH541.5.P47 Permafrost forests
Cf. QH541.5.R27 Rain forests
Cf. QH541.5.T3 Taigas. Boreal forests
Cf. QH541.5.T66 Tropical dry forests
Cf. SD416+ Forest influences
Cf. SD418+ Deforestation
541.5.F7 Freshwater
541.5.G37 Gardens
Grasslands see QH541.5.P7
541.5.G76 Groundwater
541.5.H43 Heathlands
541.5.H65 Hot springs
Cf. QH541.5.D35 Hydrothermal vents
Cf. QR107 Microbial ecology
541.5.H67 Household ecology
Intertidal zones see QH541.5.S35
541.5.I8 Islands
541.5.J8 Jungle
541.5.K4 Kelp beds
541.5.L27 Lagoons
541.5.L3 Lakes
Cf. QH541.5.S22 Salt lakes
541.5.L53 Llanos
Ecology
By type of environment, A-Z -- Continued

541.5.M27 Mangrove swamps
  Marine ecology see QH541.5.S3
541.5.M3 Marshes. Wetlands
541.5.M4 Meadows
541.5.M44 Mediterranean-type
  Cf. QH150 Mediterranean Region
541.5.M6 Moors
541.5.M65 Mountains
541.5.O24 Ocean bottom. Seabed
541.5.O25 Ocean currents
  Oceans see QH541.5.S3
541.5.P47 Permafrost forests
541.5.P6 Polar regions
541.5.P63 Ponds
  Cf. QH541.5.S18 Sagebrush steppes
541.5.R27 Rain forests
541.5.R3 Rangelands
  Reefs see QH541.5.C7
541.5.R4 Reservoirs
541.5.R52 Riparian areas
  Rivers see QH541.5.S7
541.5.R62 Roads. Roadsides
541.5.S18 Sagebrush steppes
541.5.S22 Salt lakes
541.5.S24 Salt marshes. Tide marshes
541.5.S26 Sand dunes
  Savannas see QH541.5.P7
541.5.S3 Sea. Marine ecology. Ocean ecology
  Cf. QH541.5.D35 Deep-sea zone
  Seabed see QH541.5.O24
541.5.S35 Seashore. Tidal pools
  Including intertidal zones
541.5.S55 Shrublands
541.5.S57 Snow ecology
541.5.S6 Soil
541.5.S65 Springs
  Cf. QH541.5.H65 Hot springs
  Steppes see QH541.5.P7
541.5.S7 Streams. Rivers
  Including braided rivers
  Cf. QH541.5.C73 Coulees
541.5.S87 Sublittoral
Ecology

By type of environment, A-Z -- Continued

541.5.S9
Swamps
  Cf. QH541.5.C95 Cypress swamps
  Cf. QH541.5.M27 Mangrove swamps

541.5.T3
Taigas. Boreal forests
  Cf. QH541.5.P47 Permafrost forests

541.5.T45
Temperate forests
  Tidal pools see QH541.5.S35
  Tide marshes see QH541.5.S24

541.5.T66
Tropical dry forests

541.5.T7
Tropics

541.5.T8
Tundras

541.5.U55
Underground ecology

541.5.U64
Uplands
  Cf. QH541.5.M65 Mountains

Urban ecology see QH541.5.C6

541.5.V27
Vacant lots

541.5.V3
Valleys. Floodplains
  Cf. QH541.5.C73 Coulees

541.5.W3
Water. Aquatic ecology
  Water, Fresh see QH541.5.F7
  Wetlands see QH541.5.M3

541.5.X45
Xeric ecology

(542)
Paleoecology
  see QE720

Geobiology see QH343.4

542.5
Biogeomorphology

Bioclimatology. Microclimatology
  Cf. QH545.T4 Temperature as a factor in ecology

543
General works

543.2
Acclimatization
  Cf. QK913 Plant acclimatization

543.3
Dispersal of organisms by environmental factors

Radioecology. Radiobiology
  Cf. QH328 Space radiobiology
  Cf. QH545.N8 Nuclear power plants, nuclear reactors
  Cf. QH545.N83 Nuclear warfare
  Cf. QH652+ Radiation effects on cells

543.5.A1
Periodicals. Congresses

543.5.A2
Collected works (nonserial)

543.5.A3-Z
General works, treatises, and textbooks

Aquatic radioecology

543.58
General works

543.6
Marine radioecology

543.8
Brackish water radioecology. Estuarine radioecology

543.9
Freshwater radioecology
Ecology

Radioecology. Radiobiology -- Continued

543.95  Ultraviolet radiation
544  Phenology

Influence of special factors in the environment

For works on the technical aspects (e.g., control, measurement, etc.) of pollution in general and of special kinds of pollution see TD172+

Cf. GF51 Human ecology
Cf. QH343.7+ Biogeochemistry
Cf. QK746+ Plants
Cf. QP82+ Animals
Cf. RA565+ Environmental health

545.A1  General works, treatises, and textbooks
545.A15-Z  Special, A-Z

Acid precipitation see QH545.A17
545.A17  Acid rain. Acid precipitation. Acid deposition
545.A2  Acids
545.A23  Actinide elements
545.A25  Agricultural chemicals
545.A3  Air pollution
545.A4  Aldrin
545.A42  All terrain bicycles. Mountain bikes
  Including all terrain cycling and mountain biking
545.A43  All terrain vehicles
545.A45  Ammonia
545.A77  Arsenic
Atomic warfare see QH545.N83
545.B45  Benzene
545.B47  Beryllium
545.B55  Biological pest control agents
545.B57  Bird declines
545.B6  Boron
Brines, Oil field see QH545.O47
545.C3  Cadmium
545.C34  Campfires
545.C35  Canals
545.C37  Carbon isotopes
545.C47  Chemical elements
545.C48  Chemical warfare. Chemical weapons
545.C5  Chloroform
545.C52  Cholecalciferol
545.C54  Chromium
545.C545  Cities and towns. Urban growth. Urban sprawl
545.C57  Coal-fired power plants
545.C59  Contaminated sediments
Control of weeds see QH545.W43
Ecology
Influence of special factors in the environment
Special, A-Z -- Continued

545.C6 Copper
545.C64 Coral fisheries
545.C78 Cruise ships
545.D35 Dams. Reservoirs
545.D4 Deicing chemicals
Desalination plants see QH545.S33
545.D486 Diazinon
545.D5 Dichloromethane
545.D55 Dioxins
Cf. QH545.T44 Tetrachlorodibenzodioxin
545.D57 Diquat
545.D7 Dredging
545.D713 Dredging (Fisheries)
545.D72 Dredging spoil
545.D74 Drilling muds
545.D75 Drilling platforms
545.E35 El Niño Current
545.E38 Electric power plants
545.E4 Electromagnetic waves
545.E42 ELF electromagnetic fields
Energy development see QH545.E53
545.E53 Energy industries. Energy development
Erosion, Soil see QH545.S64
545.E98 Exterior lighting
545.F47 Fertilizers
545.F5 Fire. Fire ecology
545.F52 Fish culture
545.F53 Fisheries
545.F55 Flood control
Flood dams see QH545.D35
545.F67 Forest management
545.G37 Gas pipelines
545.G46 Geothermal power plants
545.G55 Glyphosate
Growth, Urban see QH545.C545
545.H34 Hang gliding
545.H42 Heavy metals
545.H47 Herbicides
545.H49 Hexazinone
545.H54 Hiking
545.H92 Hydrocarbons
Including polycyclic aromatic hydrocarbons
545.H93 Hydroelectric power plants
Insecticides see QH545.P4
Ecology

Influence of special factors in the environment

Special, A-Z -- Continued

545.L35 Lakeshore development
545.L4 Land reclamation see QH545.R38
545.L63 Lead
545.M3 Logging
545.M34 Mariculture
545.M4 Marine pollution see QH545.W3
545.M45 Mercury
545.M52 Metals
545.M54 Metals, Heavy see QH545.H42
545.M6 Mariculture
545.M63 Mountain bikes see QH545.A42
545.M86 Muds, Drilling see QH545.D74
545.N3 Natural disasters
545.N47 Nickel
545.N5 Nitrogen
545.N65 Noise
545.N8 Nuclear power plants. Nuclear reactors
545.N83 Nuclear warfare
545.O32 Ocean acidification
545.O33 Ocean outfalls
545.O38 Offshore oil industry
545.O47 Oil field brines
545.O5 Oil pollution
545.O54 Oil sands extraction plants
545.O56 Oil shales
545.O57 Oil well drilling
545.O72 Organochlorine compounds
545.O74 Organometallic compounds
545.O76 Organophosphorus compounds
545.O87 Outdoor recreation
545.O94 Ozone
545.P37 Pentachlorophenol
545.P39 Persistent pollutants
545.P4 Pesticides
545.P5 Phosphorus
Ecology
Influence of special factors in the environment
Special, A-Z -- Continued

- Pipelines, Gas see QH545.G37
- Pollution (General) see QH545.A1
- Pollution, Air see QH545.A3
- Pollution, Marine see QH545.W3
- Pollution, Oil see QH545.O5
- Pollution, Thermal see QH545.T48
- Pollution, Water see QH545.W3

545.P6
- Polychlorinated biphenyls
- Polycyclic aromatic hydrocarbons see QH545.H92
- Power plants, Coal-fired see QH545.C57
- Power plants, Electric see QH545.E38
- Power plants, Geothermal see QH545.G46
- Power plants, Hydroelectric see QH545.H93

545.P73
- Predator control
- Radiation see QH543.5+

545.R38
- Reclamation of land

545.R42
- Recreation areas

545.R44
- Reforestation
- Reservoirs see QH545.D35

545.R58
- River regulation

545.R62
- Roads

545.S33
- Saline water conversion plants. Desalination plants

545.S35
- Saltwater encroachment

545.S37
- Sand and gravel industry

545.S4
- Scuba diving

545.S43
- Seawater fertilization. Ocean fertilization
- Sediments, Contaminated see QH545.C59

545.S45
- Selenium

545.S49
- Sewage

545.S493
- Sewage sludge

545.S498
- Shore protection

545.S5
- Shotgun pellets

545.S55
- Silver

545.S56
- Skiing
  - Including snow grooming
- Sludge, Sewage see QH545.S493
- Snow grooming see QH545.S56

545.S6
- Snowmobiles

545.S63
- Soil amendments
  - Including biochar

545.S64
- Soil erosion
- Sprawl, Urban see QH545.C545

545.S8
- Stream channelization

545.S84
- Strip mining

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Ecology
Influence of special factors in the environment
Special, A-Z -- Continued
545.S9
Sulfur
545.S92
Sulfur compounds
545.T37
Technetium
545.T4
Temperature
545.T44
Tetrachlorodibenzodioxin
545.T45
Textile industry
545.T48
Thermal pollution
545.T55
Tin compounds
545.T7
Trace elements
545.T74
Transuranium elements
545.T743
Trawls and trawling
545.T75
Triclopyr
545.T76
Tritium
545.T87
Turbidity
545.U7
Uranium mining
Urban growth see QH545.C545
Urban sprawl see QH545.C545
545.V3
Vanadium
Vehicles, All terrain see QH545.A43
545.W26
War
Cf. QH545.N83 Nuclear warfare
545.W28
Waste disposal
545.W3
Water pollution
Including marine pollution
Cf. QH90.8.T68 Aquatic toxicology
545.W33
Water resources development
Waterpower electric plants see QH545.H93
545.W43
Weed control
545.X44
Xenobiotics
545.Z56
Zinc
546
Adaptation
Including protective mechanisms, mimicry
Cf. QK912+ Plant adaptation
Cf. QH543.2 Acclimatization
546.3
Competition. Niche
547
Parasitism
Symbiosis
548
General works
548.3
Mutualism
549
Colonies
549.5
Animal-plant relationships
(555)
Degeneration
see QH528
QH BIOLOGY (GENERAL) QH

(558) Aging
see QH529

(559) Death
see QH530

Cytology
Class here general and experimental works in cytology.
For works on the cytology of particular animals written to elucidate the total organism, see the systematic divisions in QL
Cf. QH441.5 Cytogenetics
Cf. QK671 Plant cell anatomy
Cf. QK725 Plant cell physiology

573 Periodicals, societies, congresses, serial publications
574 Collected works (nonserial)
575 Dictionaries and encyclopedias

History
577 General works
578.A-Z By region or country, A-Z
General works, treatises, and textbooks
581 Through 1969
581.2 1970-
581.5 Addresses, essays, lectures
582 Pictorial works and atlases
582.4 Popular works
582.5 Juvenile works

Study and teaching. Research
583 General works
583.15 Outlines, syllabi
583.2 Laboratory manuals

Technique
Cf. TP248.27.A53 Animal cell biotechnology
585 General works
585.2 Cell culture
585.3 Serum-free culture media
Cell lines
585.4 General works
585.45 Continuous cell lines
585.457 Lymphoblastoid cell lines
585.5.A-Z Special techniques, A-Z
585.5.C43 Cell fractionation
585.5.C44 Cell separation
585.5.C64 Colony-forming units assay
585.5.C98 Cytofluorometry
585.5.C984 Cytophotometry
585.5.D38 Data processing
585.5.E43 Electrodes, Ion selective

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Cytology

Technique

Special techniques, A-Z -- Continued

585.5.E46      Electrophoresis
585.5.E48      Electroporation
585.5.F56      Flow cytometry
585.5.I45      Immobilization of cells
585.5.L37      Lasers
585.5.M52      Micropipette techniques
585.5.M53      Microspectrophotometry
585.5.N82      Nuclear magnetic resonance spectroscopy
(585.5.S45)    Serum-free culture
                see QH585.3
585.5.S83      Subcellular fractionation

Cell populations

587          General works
588.A-Z      Individual types of cells, A-Z
588.A38      Adult stem cells
588.S83      Embryonic stem cells see QH588.S83
                Stems cells
                Including embryonic stem cells
                Stems cells, Adult see QH588.A38
591          Protoplasm. Cytoplasm
595          Nucleus
596          Nucleolus
597          Centrosome. Centriole
599          Chromatin

Chromosomes

                Cf. QH462.A1+ Chromosomal mutation
600          General works
600.15       Artificial chromosomes
600.2        Centromere
600.3        Telomere
600.5        Sex chromosomes
600.6        Giant chromosomes. Lampbrush chromosomes

Cell membranes

601          General works
601.15       Electric properties
601.2        Nuclear membranes
602          Lipid membranes. Bilayer lipid membranes. Liposomes
603.A-Z      Other special, A-Z
603.C4       Cell junctions
603.C43      Cell receptors
603.C63      Coated vesicles
603.C95      Cytoplasmic filaments
603.C96      Cytoskeleton
603.E6       Endoplasmic reticulum
Cytology
  Other special, A-Z -- Continued
  603.E63    Endosomes
  603.E93    Extracellular space
  603.G55    Glycocalyces
  603.G6     Golgi apparatus
  603.I49    Inclusion bodies
  603.I54    Ion channels
  603.L9     Lysosomes
  603.M35    Microbodies
  603.M4     Microsomes
  603.M44    Microtubules
  603.M5     Mitochondria
  603.N83    Nuclear matrix
  603.P47    Peroxisomes
  603.R5     Ribosomes
  603.S27    Sarcoplasmic reticulum

Control mechanisms. Cell regulation
  Cf. QP187.3.C44 Endocrinology
  604    General works
  604.2   Cell interaction
  Cf. QP517.C45 Cellular signal transduction
  604.3   Cell compartmentation
  604.5   Ion exchange
  604.7   Cell growth. Cell proliferation

Cell division
  605    General works
  605.2   Mitosis
  605.3   Meiosis

Cell differentiation
  607    General works
  Cf. QL963.5 Embryology
  607.2.A-Z By type of cell, A-Z
  607.2.C47 Chromatophores. Pigment cells
  Pigment cells see QH607.2.C47

Aging of cells
  Cf. QH671 Pathology and death

Cellular repair mechanisms

Physical and chemical properties
  Cf. QH506 Molecular biology

General works
  611
  Histochemistry
  613
  Osmosis
  621
  Turgescence
  622
  Adsorption
  623
  Adhesion

Physiological properties
Cytology
Physiological properties -- Continued

631 General works
633 Respiration
634 Ingestion. Pinocytosis, etc.
634.2 Exocytosis
634.5 Metabolism
635 Heat production. Energy
641 Light production. Bioluminescence
   Cf. QP517.C54 Chemiluminescence
642 Optical properties
643 Radiation properties
645 Electric properties
645.5 Mechanical properties
646 Contraction
647 Motility. Irritability
Effect of physical and chemical agents on cells
   Cf. QK746+ Plant physiology
   Cf. QP62+ Animal physiology

650 General works
651 Light
   Cf. QH515 Photobiology
Radiation
   For the effect of radiation on specific organs, organisms, etc.,
   see the specific organ, etc., e.g. QP356.5, Nervous system
   Cf. QP82.2.R3 Radiation (Physiology)
652.A1 Periodicals, societies, congresses, serial publications
652.A2 Collected works (nonserial)
652.A3-Z General works, treatises, and textbooks
652.4 Ultraviolet radiation
(652.5) Radiogenetics
   see QH465.R3
652.7 Acoustic radiation
653 Temperature
655 Electricity
656 Magnetic fields
658 Pressure
659 Chemicals
671 Pathology and death
   Cf. QH608 Aging of cells
Economic biology
   Cf. S494.5.E25 Agriculture
   Cf. SB107+ Economic botany
   Cf. SF84+ Economic zoology

705 General works
Economic biology -- Continued

705.5 A-Z

By region or country, A-Z
Botany

1  Periodicals, societies, congresses, serial publications
3  Collected works (nonserial)
5  Voyages and expeditions
7  Encyclopedias
9  Dictionaries

Communication of information
9.2  General works
9.3  Information services
9.4  Computer network resources
   Including the Internet

10  Terminology, notation, abbreviations
   Cf. QK96 Nomenclature

11  Indexes of plants

13  Popular names
14.5  Botanical literature
   Including works on herbals

History
15  General works
21.A-Z  By region or country, A-Z

Biography
26  Collective
   e. g.
31.G8  Gray
31.T7  Torrey

35  Directories

General works and treatises
   Cf. QK91 Works of Linnaeus (Botany only)
41  Early through 1753
45  1754-1969
45.2  1970-

46  Special aspects of the subject as a whole
46.5.A-Z  Special topics, A-Z
46.5.A47  Aerial photography
46.5.B66  Botanizers

Botany for gardeners see QK50
46.5.D58  Diversity, Plant (General)
   Including centers of plant diversity
   For plant diversity conservation see QK86+
   For local see QK102+
46.5.E4  Electronic data processing
46.5.F67  Forensic botany
46.5.H85  Human-plant relationships
46.5.M3  Mathematical models
46.5.S7  Statistical methods
Special topics, A-Z -- Continued

46.5.V44  Vegetation monitoring
  For local see QK108+

47  Textbooks
48  Handbooks, tables, formulas, etc.
49  Juvenile works
50  Popular works
  For plants of individual regions or countries see QK108+

50.5  Botany as a profession. Vocational guidance
  Study and teaching. Research
51  General works
51.2.A-Z  By region or country, A-Z
  Each region or country subarranged by author
52  Outlines, syllabi
52.5  Problems, exercises, examinations
52.55  Activity programs
52.6  Experiments
53  Laboratory manuals
  Cf. QK673 Anatomy and histology
  Audiovisual aids
54  General works
55  Charts
57  Plant analysis blanks
61  Collection and preservation
61.4  Plant prints
62  Vegetation surveys
63  Vegetation mapping
  For geographic treatment see QK108+

Botanical gardens
  Class here descriptions, catalogs, and administrative reports only.
  Class other serial publications in QK1
  Cf. QK479+ Arboretums
71  General works
73.A-Z  By region or country, A-Z
  Under each country:
    .x  General works
    .x2A-.x2Z  Individual. By name, A-Z

Herbariums
  Class here descriptions, catalogs, and administrative reports only.
  Class other serial publications in QK1

75  General works
76.A-Z  By region or country, A-Z
77.A-Z  Individual. By name, A-Z

Laboratories
  Class here descriptions, catalogs, and administrative reports only.
  Class other serial publications in QK1
78  General works
Laboratories -- Continued

78.5.A-Z  
By region or country, A-Z  
Subarrange each country by Table Q6

Museums. Exhibitions

Class here descriptions, catalogs, and administrative reports only.  
Class other serial publications in QK1

79  
General works

79.5.A-Z  
By region or country, A-Z  
Subarrange each country by Table Q5

81  
Addresses, essays, lectures

83  
Plant lore  
Cf. GR780+ Folklore

National plants. Official plants

Including state, provincial, etc. plants

84.8  
General works  
By region or country

85  
United States  
85.3.A-Z  
Other regions or countries, A-Z

85.5  
Wild flowers

Prefer classification by area

Plant conservation. Rare plants. Endangered plants

Including plant diversity conservation and remnant vegetation conservation and management

86.A1  
General works

86.A5-Z  
By region or country, A-Z

86.4  
Plant reintroduction

86.5  
Applied ethnobotany

Relict plants

86.7  
General works

86.73.A-Z  
By region or country, A-Z

87  
Miscellany and curiosa

89  
Pressed plants with text. Bound herbaria

Classification

91  
Works of Linnaeus (Botany only)

92  
Linnaean system (Minor works)

Natural systems

Not to be used for systems developed after Darwin

93  
General works, treatises, and textbooks

94  
Minor works

Systematics and taxonomy. Philosophy and methodology

95  
General works

95.4  
Chemotaxonomy

For geographic treatment see QK108+  
For systematic treatment see QK494.5.A+

95.6  
Molecular aspects

96  
Nomenclature

97  
Comprehensive systematic works
97.5 Identification
For geographic treatment see QK108+

98 Pictorial works and atlases (of plants)
Prefer classification by area
Atlases of botanical maps are classed in class G

Botanical illustration and artists
Cf. QK98 Pictorial works

History
98.15 General works
98.16.A-Z By region or country, A-Z

Biography
98.18 Collective
98.183.A-Z Individual, A-Z
Including collections of their illustrations

98.2 General works
98.24 Technique
98.3 Catalogs

98.4 Useful plants. Permaculture plants
98.4.A1 General works, treatises, and textbooks
98.4.A5-Z By region or country, A-Z
Economic botany see SB107+

Edible plants
Including edible wild plants
Cf. SB175+ Food crops

98.5.A1 General works, treatises, and textbooks
98.5.A5-Z By region or country, A-Z

Dye plants (General)
Cf. SB285+ Culture

98.7.A1 General works, treatises, and textbooks
98.7.A5-Z By region or country, A-Z

Medical botany (General)
Cf. RS164 Drugs of the vegetable kingdom
Cf. SB293 Culture

99.A1 General works, treatises, and textbooks
99.A5-Z By region or country, A-Z

Poisonous plants
Cf. SB617+ Poisonous plants as pests

100.A1 General works, treatises, and textbooks
100.A5-Z By region or country, A-Z

Geographical distribution. Phytogeography

101 General works, treatises, and textbooks

Aquatic flora (General)
For geographic treatment see QK108+
Cf. QK564+ Algae

102 General works
103 Marine flora (General)
105 Freshwater flora (General)
Geographical distribution. Phytogeography -- Continued

Topographical divisions

108  Special parts of the world
     Including British Empire
     America

109  General works
     North America

110  General works

112  Illustrations of North American flora
     United States
     Including East (U.S.)

115  General works
     By region
     Northeast

117  General works

118  Popular handbooks

121  New England

121.5  Saint John River and Valley (Me. and N.B.)

122  General works

122.3  Appalachian Mountains

122.5  Middle Atlantic States

122.8  Chesapeake Bay

122.85  Potomac River

122.9  South Atlantic States

124  General works

124.2  Chihuahuan Desert

125  General works

125.35  Blue Ridge Mountains

125.4  Great Smoky Mountains

125.8  Gulf States

128  Middle West

130  Great Lakes

133  General works

134  Ozark Mountains

135  Great Plains

139  Rocky Mountains Region

141  Great Basin

142  General works

142.2  Chihuahuan Desert

142.3  Mojave Desert

142.4  Sonoran desert

Sierra Nevada

323
Geographical distribution. Phytogeography
Topographical divisions
America
North America
United States
By region
West (U.S.) -- Continued
142.7 General works
142.75 Tahoe, Lake, Watershed (Calif. and Nev.)
143 Pacific coast
Northwest
144 General works
144.2 Columbia Basin
By state
145 Alabama
146 Alaska
147 Arizona
148 Arkansas
149 California
150 Colorado
151 Connecticut
152 Delaware
153 District of Columbia
154 Florida
155 Georgia
Hawaii see QK473.H4
156 Idaho
157 Illinois
159 Indiana
160 Iowa
161 Kansas
162 Kentucky
163 Louisiana
164 Maine
165 Maryland
166 Massachusetts
167 Michigan
168 Minnesota
169 Mississippi
170 Missouri
171 Montana
172 Nebraska
173 Nevada
174 New Hampshire
175 New Jersey
176 New Mexico
Geographical distribution. Phytogeography

Topographical divisions

America

North America

United States

By state -- Continued

177                      New York
178                      North Carolina
179                      North Dakota
180                      Ohio
181                      Oklahoma
182                      Oregon
183                      Pennsylvania
184                      Rhode Island
185                      South Carolina
186                      South Dakota
187                      Tennessee
188                      Texas
189                      Utah
190                      Vermont
191                      Virginia
192                      Washington
193                      West Virginia
194                      Wisconsin
195                      Wyoming. Yellowstone Park

Canada

201                   General works
203.A-Z                   By region or province, A-Z

For regions that include both the United States and Canada see QK115+

Latin America

205                      General works
211                      Mexico

Central America

215                      General works
216                      Belize
217                      Costa Rica
218                      Guatemala
219                      Honduras
220                      Nicaragua
221                      Panama
222                      El Salvador

West Indies. Caribbean area

225                      General works
226                      Bahamas
227                      Cuba
                      Hispaniola
Geographical distribution. Phytogeography
Topographical divisions
America
Latin America
West Indies. Caribbean area
Hispaniola -- Continued
227.7
General works
227.8
Dominican Republic
228
Haiti
229
Jamaica
230
Puerto Rico
231.A-Z
Other, A-Z
231.A48
Antigua and Barbuda
231.A5
Antilles, Lesser
231.A78
Aruba
231.B3
Barbados
British Virgin Islands see QK231.V53
231.C35
Cayman Islands
231.C87
Curaçao
231.D59
Dominica
Dominican Republic see QK227.8
231.F74
French West Indies
231.G73
Grenada
231.G8
Guadeloupe
231.M35
Martinique
231.N4
Netherlands Antilles
231.S3
Saint Bartholomew
231.S33
Saint Kitts and Nevis
231.S34
Saint Lucia
231.S35
Saint Martin
231.S38
Saint Vincent and the Grenadines
231.T75
Trinidad and Tobago
231.T87
Turks and Caicos Islands
United States Virgin Islands see QK231.V55
Virgin Islands
231.V5
General
231.V53
British Virgin Islands
231.V55
United States Virgin Islands
232
Bermuda
South America
241
General works
261
Argentina
262
Bolivia
263
Brazil
264
Chile
265
Colombia
266
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326
Geographical distribution. Phytogeography

Topographical divisions

America

Latin America

South America -- Continued

Galapagos see QK473.G2

Guiana

266.8 General works

267 Guyana (British Guiana)

268 Suriname (Dutch Guiana)

269 French Guiana

270 Paraguay

271 Peru

272 Uruguay

273 Venezuela

274 Falkland Islands

Atlantic Ocean Islands

275.A1 General works

275.A3-Z By island or group of islands, A-Z

275.A9 Azores

Bermuda see QK232

Canary Islands see QK422

275.C4 Cabo Verde

Falkland Islands see QK274

275.F37 Faroe Islands

275.M3 Madeira

275.S27 Saint Helena

275.S3 Salvages Islands

275.S68 South Orkney Islands

275.T74 Tristan da Cunha Island

Europe

281 General works

Zone and physiographic divisions

297 Alpine

303.A-Z Other, A-Z

By region or country

British Isles. Great Britain. England

306 General works

307 Ireland

307.5 Northern Ireland

308 Scotland

309 Wales

310 Austria

311 Hungary

313 France

313.5 Monaco
Geographical distribution. Phytogeography
Topographical divisions
Europe
By region or country -- Continued

314  Germany
    Including East and West Germany
(314.2)  East Germany
    see QK314
314.5  Mediterranean Region
    Including African coast
315  Greece
316  Italy
316.5  Malta
317  Benelux (Low Countries)
318  Belgium
319  Luxembourg
320  Netherlands (Holland)
321  Russia. Soviet Union. Russia (Federation)
    Cf. QK372+ Former Soviet areas of Asia
    Cf. QK375+ Russia (Federation) in Asia
321.5  Belarus
321.6  Moldova
321.7  Ukraine
322  Poland
323  Finland
324  Scandinavia (General)
    Including Lapland
325  Denmark
325.5  Iceland
326  Norway
327  Sweden
Iberian Peninsula
328  General works
329  Spain
329.2  Gibraltar
330  Portugal
331  Switzerland
Balkan Peninsula
    Including Turkey in Europe
332  General works
332.5  Bosnia and Herzegovina
333  Bulgaria
334  Croatia
334.5  Macedonia (Republic)
335  Romania
    Serbia see QK336
335.5  Slovenia
Geographical distribution. Phytogeography

Topographical divisions

Europe

By region or country

Balkan Peninsula -- Continued

336

Yugoslavia

Including Montenegro and Serbia

339.A-Z

Other European regions, islands, or countries, A-Z

339.A5

Albania

Alps see QK297

339.A54

Andorra

339.B34

Baltic States

339.B47

Bessarabia (Moldova and Ukraine)

339.C35

Carpathian Mountains

339.C45

Central Europe

339.C5

Channel Islands

339.C65

Constance, Lake of

339.C8

Czechoslovakia. Czech Republic

339.E37

Eastern Europe

339.E8

Estonia

339.J85

Jura Mountains (France and Switzerland)

339.L3

Latvia

339.L46

Liechtenstein

339.L5

Lithuania

Mediterranean Region see QK314.5

339.N67

Northern Europe

339.P95

Pyrenees (France and Spain)

339.S55

Slovakia

Yugoslavia see QK336

Asia

341

General works

352

Afghanistan

Arabian Peninsula

353

General works

353.2

Bahrain

353.3

Kuwait

353.4

Oman

353.5

Qatar

353.6

Saudi Arabia

353.7

United Arab Emirates

353.8

Yemen

354

Baluchistan

Cf. QK358.5 Baluchistan in Pakistan

China

355

General works

355.5

Hong Kong

355.6

Macau
Geographical distribution. Phytogeography
Topographical divisions
Asia -- Continued

356
Taiwan

357
Mongolia

South Asia. British Indian Empire

357.5
General works

358
India

358.5
Pakistan
Including Baluchistan (Province)

358.7
Bangladesh

359
Sri Lanka

359.5
Nepal

359.6
Bhutan

Southeast Asia
For Malay Peninsula see QK365

360
General works

360.5
Burma. Myanmar

361
Cambodia. Laos. Vietnam. French Indonesia

364
Thailand

365
Malaysia
Including Malay Peninsula and Singapore
For Sabah and Sarawak see QK367

Malay Archipelago

365.5
General works

366
New Guinea
Including Papua (Indonesia) and Papua New Guinea

367
Indonesia
Including Borneo
For Papua see QK366
Brunei see QK367

368
Philippines

Japan
For Karafuto see QK375.2

369
General works

369.3
Ryukyu Islands
Including Okinawa-ken

370
Korea

371
Iran

Former Soviet areas of Asia
Cf. QK377 Caucasus

372
General works

374
Central Asia
General works

374.3
Kazakhstan

374.4
Kyrgyzstan

374.5
Tajikistan
Geographical distribution. Phytogeography
Topographical divisions
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374.6
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374.7
Uzbekistan
Russia (Federation) in Asia. Siberia. Russian Far East
375
General works
375.2
Sakhalin
376
Asia Minor
Including Turkey in Asia
377
Caucasus
Including Armenia, Azerbaijan, Georgia (Republic)
377.3
Cyprus
377.5
Syria
377.7
Lebanon
378
Israel. Palestine
378.5
Jordan
379
Iraq
Bahrain see QK353.2
Kuwait see QK353.3
Oman see QK353.4
Qatar see QK353.5
Saudi Arabia see QK353.6
United Arab Emirates see QK353.7
Yemen see QK353.8
379.5.A-Z
Other Asian regions or countries, A-Z
379.5.E38
East Asia
379.5.H55
Himalaya Mountains
379.5.M36
Mannar, Gulf of
379.5.M53
Middle East
379.5.P47
Persian Gulf
380
Arab countries
Africa
381
General works
By region or country
390
North Africa
391
Tropical Africa
Eastern Africa
Cf. QK401 East Africa
392
General works
392.4
Northeast Africa
393
West Africa
393.5
Central Africa
Cf. QK400 Former British Central Africa
394
Southern Africa
Geographical distribution. Phytogeography
Topographical divisions
Africa
By region or country -- Continued
395                Ethiopia. Eritrea
            Former British possessions
395.8                   General works
396                   South Africa
400                   Central Africa (General)
401                   East Africa (General)
402.A-Z                   Other special, A-Z
402.B6                   Botswana
402.G3                   Gambia
402.G5                   Ghana
402.K4                   Kenya
402.L48                   Lesotho
402.M28                   Malawi
            Mauritius see QK429.M3
402.N34                   Namibia
402.N5                   Nigeria
402.R5                   Rhodesia, Southern. Zimbabwe
402.S5                   Sierra Leone
            Somalia see QK415
402.S8                   Swaziland
402.U2                   Uganda
402.Z3                   Zambia
            Zimbabwe see QK402.R5
Mediterranean Region (General) see QK314.5

403                Egypt
404                Sudan
404.5                South Sudan
            Former French possessions
405                   Algeria
406                   Tunisia
407                   Madagascar
408                   Senegal. Senegambia
409                   Sahara
410.A-Z                   Other special, A-Z
410.B45                   Benin
410.B85                   Burkina Faso
            Cameroon see QK412
410.C4                   Central African Republic
410.C5                   Chad
        (410.D3)                   Dahomey
            see QK410.B45
410.D55                   Djibouti
410.G3                   Gabon

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Geographical distribution. Phytogeography

Topographical divisions

Africa

By region or country

Former French possessions

Other special, A-Z -- Continued

410.G84                      Guinea
410.I8                      Ivory Coast. Côte d'Ivoire
410.M38                      Mauritania
                     Réunion see QK429.M27
410.T64                      Togo

Former German possessions

411                   Tanzania
411.5                   Rwanda
412                   Cameroon
413                   Namibia. Southwest Africa
                     (414)
                     Eritrea
                     see QK395
415                   Somalia
416                   Zaire. Congo (Democratic Republic)
416.4                   Congo (Brazzaville)
417                   Liberia
418                   Morocco
419                   Mozambique
420                   Angola
420.5                   Sao Tome and Principe
421                   Guinea-Bissau
422                   Canary Islands
423                   Western Sahara
423.5                   Equatorial Guinea
                     Including Fernando Po
424                   Libya

Indian Ocean islands

428                   General works
429.A-Z                      By island or group of islands, A-Z
429.A44                      Aldabra Islands
429.C4                      Christmas Island. Kiribati
429.C6                      Comoros
                      Madagascar see QK407
429.M24                      Maldives
429.M27                      Mascarene Islands
                     Including Réunion
429.M3                      Mauritius
429.M34                      Mayotte
429.P74                      Prince Edward Islands
                     Réunion see QK429.M27
429.S4                      Seychelles

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Geographical distribution. Phytogeography
Topographical divisions
Indian Ocean islands
    By island or group of islands, A-Z -- Continued
429.S6                Sokotra
Australia
431             General works
445             New South Wales
                Including Australian Capital Territory
        Norfolk Island see QK473.N67
451             Northern Territory
453             Queensland
455             South Australia
457             Tasmania
459             Victoria
461             Western Australia
463             New Zealand and adjacent islands
Pacific islands. Oceania
471             General works
473.A-Z             By island or group of islands, A-Z
                Cf. QK463 New Zealand and adjacent islands
473.B6                Bonin Island
473.C48                Chuuk (Micronesia)
473.C55                Clipperton Island
473.E17                Easter Island
473.F5                Fiji Islands
473.F74                French Polynesia
473.G2                Galapagos Islands
473.G9                Guam
473.H4                Hawaiian Islands
473.J8                Juan Fernandez (Islands)
473.K55                Kiribati
473.K6                Kommander Islands
473.M3                Makatea
473.M34                Mariana Islands
473.M36                Marshall Islands
473.M5                Micronesia
473.M53                Midway Islands
473.N32                Nauru
473.N4                New Caledonia
        New Guinea see QK366
        Niilhau see QK473.H4
473.N57                Niue (Island)
473.N67                Norfolk Island
        Oceania see QK471+
        Okinawa Islands see QK369.3
473.P3                Palmyra Island
Geographical distribution. Phytogeography
Topographical divisions
Pacific islands. Oceania
   By island or group of islands, A-Z -- Continued
473.P5                Pitcairn Islands
473.P75                Polynesia
473.P78                Ponape Island
473.R27                Raiatea
473.R3                Rarotonga
473.S3                Samoan Islands
473.S6                Society Islands (French Polynesia)
473.T3                Tahiti
473.T6                Tonga
473.T88                Tuvalu
473.V25                Vanuatu
473.W33                Wake Island
Polar regions
473.5                General works
   Arctic regions
474                General works
474.2                Greenland
474.3                Svalbard
474.4                Antarctica
474.5                Tropics
   Cf. QK391 Tropical Africa
   Cf. QK936 Tropical plant ecology
Spermatophyta. Phanerogams
   For general works, see general botany
Trees and shrubs
   Cf. SD434+ Timber trees
474.8                Periodicals. Societies. Serials
474.83                Collected works (nonserial)
474.85                Congresses
474.87                Dictionaries and encyclopedias
475                General works, treatises, and textbooks
475.6                Pictorial works. Atlases
475.8                Juvenile works
476                Study and teaching. Research
477                Special aspects of the subject as a whole
   For historic trees, see D
   For folklore of trees see GR785
   For national and state trees see QK84.8+
   For remarkable trees see SD383+
477.2.A-Z                Special topics, A-Z
477.2.A6                Annual rings
   Cf. CC78.3 Archaeology
   Cf. QC884.2.D4 Dendroclimatology
Spermatophyta. Phanerogams
Trees and shrubs
Special topics, A-Z -- Continued
Flowering see QK830
Flowers see QK653+
477.2.I4
Identification
Rings see QK477.2.A6
Roots see QK644
Arboretums. Fruticeta
479
General works
480.A-Z
By region or country, A-Z
Under each country:
.x General works
.x2A-.x2Z Local or individual. By name, A-Z
(481-493.5)
Local
see QK108+
Systematic divisions
Gymnosperms
Including orders and higher (not A-Z)
494
General works
494.5.A-Z
By family, A-Z
Class species and genera by family
Abietaceae see QK494.5.P66
494.5.A7
Araucariaceae
494.5.C4
Cephalotaxaceae
Coniferae see QK494
Coniferales see QK494
494.5.C975
Cupressaceae
494.5.C995
Cycadaceae
494.5.E5
Ephedraceae
494.5.G48
Ginkgoaceae
494.5.G565
Gnetaceae
494.5.P58
Phyllocladaceae
494.5.P66
Pinaceae
494.5.P73
Podocarpaceae
494.5.S35
Sciadopityaceae (Japanese umbrella pine)
494.5.S8
Stangeriaceae
494.5.T25
Taxaceae
494.5.T3
Taxodiaceae
494.5.W4
Welwitschiaceae
494.5.Z35
Zamiaceae
Angiosperms
495.A1
General works, treatises, and textbooks
For geographical treatment see QK108+
For works limited to anatomy, morphology, and
physiology see QK640+
Spermatophyta. Phanerogams
Systematic divisions
Angiosperms
By family, A-Z -- Continued

495.A12
  Dicotyledons
    Including orders and higher (not A-Z)

495.A14
  Monocotyledons
    Including orders and higher (not A-Z)

495.A15-Z
  By family, A-Z
    Class species and genera by family

495.A1655
  Acanthaceae

495.A17
  Aceraceae (Maple)

495.A175
  Achariaceae

495.A176
  Achatocarpaceae

495.A177
  Actinidiaceae

495.A178
  Adoxaceae (Moschatel)

495.A185
  Aextoxicaceae

495.A24
  Agapanthaceae

(495.A26)
  Agavaceae
    see QK495.A83

495.A32
  Aizoaceae (Ice plant)

495.A34
  Akaniaceae

495.A36
  Alangiaceae

495.A4
  Alismataceae (Water plantain)

495.A42
  Alliaceae (Onion; garlic; leek)
    Aloaceae see QK495.A42

495.A48
  Amaranthaceae (Amaranth)

495.A484
  Amaryllidaceae (Amaryllis)

495.A485
  Amborellaceae

495.A498
  Anacardiaceae (Cashew)

495.A499
  Ancistrocladaceae

495.A6
  Annonaceae (Pawpaw)

(495.A65)
  Aphyllanthaceae
    see QK495.A83

  Apiaceae see QK495.U48

495.A66
  Apocynaceae (Dogbane)

495.A667
  Aponogetonaceae

495.A67
  Aquifoliaceae (Holly)

495.A685
  Araceae (Arum)

495.A6853
  Araliaceae (Ginseng)
    Areceaeae see QK495.P17

495.A688
  Aristolochiaceae (Dutchman's pipe)

495.A815
  Asclepiadaceae (Milkweed)

495.A83

495.A835
  Asphodelaceae
    Asteraceae see QK495.C74

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Spermatophyta. Phanerogams
Systematic divisions
Angiosperms
By family, A-Z -- Continued

495.A9  Austrobaileyaceae
495.B2  Balanopaceae
495.B23  Balanophoraceae
495.B25  Balsaminaceae (Touch-me-not)
495.B256  Basellaceae (Madeira vine)
495.B33  Bataceae
495.B4  Begoniaceae (Begonia)
495.B45  Berberidaceae (Barberry)
495.B56  Betulaceae (Birch)
495.B62  Bignoniaceae (Catalpa)
495.B63  Bixaceae
495.B7  Bombacaceae
        see QK495.M27
495.B73  Boraginaceae (Borage)
        Brassicaceae see QK495.C9
495.B75  Bretschneideraceae
495.B76  Bromeliaceae (Bromelia)
495.B78  Brunelliaceae
495.B785  Bruniaceae
495.B786  Brunoniaceae (Blue-pincushion)
495.B7865  Buddlejaceae
495.B79  Burmanniaceae
495.B8  Burseraceae (Incense tree)
495.B83  Butomaceae (Flowering rush)
495.B85  Buxaceae (Box)
495.B9  Byblidaceae
495.C11  Cactaceae (Cactus)
495.C1153  Caesalpiniaeae
495.C1155  Callitrichaceae (Water starwort)
495.C15  Calycanthaceae (Spicebush)
495.C17  Calyceraceae
495.C18  Campanulaceae (Bellflower)
        Candolleaceae see QK495.S87
495.C182  Canellaceae
495.C194  Cannabaceae
495.C196  Cannaceae (Canna)
        Capparaceae see QK495.C198
495.C198  Capparidaceae (Spiderflower)
495.C199  Caprifoliaceae (Honeysuckle)
495.C1995  Cardiopetidaceae
495.C1997  Caricaceae (Papaya)
495.C2  Caryocaraceae
495.C24  Caryophyllaceae (Pink)
Spermatophyta. Phanerogams
Systematic divisions
Angiosperms
By family, A-Z -- Continued

495.C27                Casuarinaceae (Beefwood)
495.C385                Celastraceae (Staff tree)
495.C39                Centrolepidaceae
495.C395                Cephalotaceae
495.C4                Ceratophyllaceae (Hornwort)
495.C43                Cercidiphyllaceae
495.C46                Chenopodiaceae (Goosefoot)
495.C47                Chloranthaceae
495.C48                Chrysobalanaceae
495.C5                Cistaceae (Rockrose)
495.C55                Clethraceae
495.C555                Clusiaceae see QK495.G87
495.C6                Cochlospermaceae
495.C65                Columelliaceae
495.C7                Combretaceae (White mangrove)
495.C73                Commelinaceae (Spiderwort)
495.C74                Compositae (Sunflower)
495.C76                Connaraceae
495.C78                Convolvulaceae (Morning-glory)
495.C783                Coriariaceae
495.C785                Cornaceae (Dogwood)
495.C786                Corsiaceae
495.C787                Corynocarpaceae
495.C79                Crassulaceae (Stonecrop)
495.C797                Crossosomataceae
495.C9                Cruciferae (Mustard)
495.C93                Crypteroniaceae
495.C96                Cucurbitaceae (Gourd)
495.C965                Cunoniaceae (Lightwood)
495.C967                Cuscutaceae (Dodder)
495.C97                Cymaestraceae
495.C975                Cyclanthaceae (Panama-hat palm)
495.C979                Cymodoceaceae
495.C98                Cynomoriaceae
495.C997                Cyperaceae (Sedge)
495.C9973                Cyrillaceae (Leatherwood)
495.D325                Daphniphyllaceae
495.D33                Datiscaceae (Durango root)
495.D34                Davidiaceae
495.D35                Davidsoniaceae
495.D4                Degeneriaceae
495.D42                Desfontainiaceae
Spermatophyta. Phanerogams
Systematic divisions
Angiosperms
By family, A-Z -- Continued

495.D43                   Dialypetalanthaceae
495.D435                  Diapensiaceae
495.D44                   Dichapetalaceae
495.D45                   Didiereaceae
495.D46                   Didymelaceae
495.D47                   Dilleniaceae
495.D48                   Dioncophyllaceae
495.D54                   Dioscoreaceae (Yam)
495.D545                  Dipentodontaceae
495.D56                   Dipsacaceae (Teasel)
495.D564                  Dipterocarpaceae
495.D67                   Doryanthaceae
495.D76                   Droseraceae (Sundew)
495.D9                    Duckeodendraceae
495.D95                   Dysphanieae
495.E25                   Ebenaceae (Ebony)
495.E33                   Elaeagnaceae
495.E35                   Elaeocarpaceae
495.E37                   Elatinaceae (Waterwort)
495.E44                   Empetraceae (Crowberry)
495.E45                   Epacridaceae
495.E64                   Eremolepidaceae
495.E68                   Ericaceae (Heath)
495.E685                  Eriocaulaceae (Pipewort)
(495.E695)                Eriospermaceae
                      see QK495.A83
495.E82                   Erythroxylaceae (Coca)
Escalloniaceae see QK495.S3
Eucalyptus see QK495.M9
495.E84                   Eucommiaceae
495.E85                   Eucryphiaceae
495.E9                    Euphorbiaceae (Spurge)
495.E95                   Eupomatiaceae
495.E96                   Eupteleaceae
                      Euryalaceae see QK495.T4
Fabaceae see QK495.L52
495.F14                   Fagaceae (Beech; Oak)
495.F55                   Flacourtiaceae
495.F58                   Flagellariaceae
495.F6                    Fouquieriaceae (Ocotillo)
495.F67                   Frankeniaceae (Alkali heath)
495.G26                   Garryaceae (Silktassel bush)
495.G27                   Geissolomataceae

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Spermatophyta. Phanerogams
Systematic divisions
Angiosperms
By family, A-Z -- Continued

495.G35    Gentianaceae (Gentian)
495.G37    Geosiridaceae
495.G38    Geraniaceae (Geranium)
495.G4    Gesneriaceae (African violet)
495.G56    Globulariaceae
495.G65    Gomortegaceae
495.G655    Goodeniaceae
495.G74    Gramineae (Grass)
495.G745    Griseliniaceae
495.G75    Grossulariaceae
495.G76    Grubbiaceae
495.G83    Gunneraceae
495.G87    Guttiferae (St. Johnswort)
495.G877    Gyrostemonaceae
495.H15    Haemodoraceae (Bloodwort)
495.H2    Haloragaceae (Water milfoil)
        Haloragidaceae see QK495.H2
495.H3    Hamamelidaceae (Witch hazel)
495.H35    Heliconiaceae
495.H38    Hemerocallidaceae (Daylily)
        Henriqueziaceae see QK495.R85
495.H42    Hernandiaceae
495.H5    Himantandraceae
495.H65    Hippocastanaceae (Horse chestnut)
495.H66    Hippocrateaceae
495.H67    Hippuridaceae (Mare's tail)
495.H7    Hoplestigmataceae
        Houmiiriaceae see QK495.H8
495.H8    Humiriaceae
(495.H83)    Hyacinthaceae
        see QK495.A83
495.H84    Hydnoraceae
(495.H85)    Hydrocaryaceae
        see QK495.T66
495.H86    Hydrocharitaceae (Elodea)
495.H88    Hydrophyllaceae (Waterleaf)
495.H885    Hydostachyaceae
495.H9    Hypoxidaceae
495.I25    Icacinaceae
495.I4    Illiciaceae (Anise tree)
495.I75    Iridaceae (Iris)
495.J85    Juglandaceae (Walnut)
495.J855    Julianiaceae
Spermatophyta. Phanerogams
Systematic divisions
Angiosperms
By family, A-Z -- Continued

495.J87                Juncaceae (Rush)
495.J875                Juncaginaceae (Arrow grass)
495.K7                Krameriaceae
        Labiatae see QK495.L25
495.L152                Lacistemataceae
495.L153                Lactoridaceae
495.L25                Lamiaeae (Mint)
495.L32                Lardizabalaceae
495.L375                Lauraceae (Laurel)
495.L42                Lecythisaeae (Brazil nut)
495.L46                Leeaceae
495.L52                Legumes
        Cf. QK495.C1153 Caesalpinaceae
        Cf. QK495.M545 Mimosaceae
495.L524                Leitneriaceae (Corkwood)
495.L527                Lemnaceae (Duckweed)
495.L528                Lennoaceae
495.L53                Lentibulariaceae (Bladderwort)
495.L72                Liliaeae (Lily)
495.L73                Limnanthaceae (Meadowfoam)
495.L74                Liniaeae (Flax)
495.L76                Lissocarpaceae
495.L78                Loasaceae (Evening star)
495.L785                Loganiaceae (Butterfly bush)
495.L87                Loranthaceae (Mistletoe)
495.L88                Lowiaceae
495.L9                Lythraceae (Crepe myrtle)
495.M24                Magnoliaceae (Magnolia)
495.M245                Malesherbiaceae
495.M26                Malpighiaceae
495.M27                Malvaceae (Mallow)
495.M28                Marantaceae (Arrowroot)
495.M285                Marograviaceae
495.M287                Martyniaceae (Devil's claw)
495.M3                Mayacaceae (Bogmoss)
495.M5                Medusagynaceae
495.M51                Medusandraceae
495.M5135                Melanthiaceae
495.M514                Melastomataceae (Meadow beauty)
495.M52                Meliaceae (Mahogany)
495.M524                Melianthaceae (Honey bush)
495.M537                Menispermaceae (Moonseed)
495.M5375                Menyanthaceae

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Spermatophyta. Phanerogams
Systematic divisions
Angiosperms
By family, A-Z -- Continued

495.M545    Mimosaceae
495.M55     Misodendraceae
495.M6     Molluginaceae
495.M67    Monimiaceae (Voldo)
495.M73    Moraceae (Mulberry)
495.M74    Moringaceae (Horseradish tree)
495.M78    Musaceae (Banana)
           Musales see QK495.A14
495.M8     Myoporaceae
495.M83    Myricaceae (Wax myrtle)
495.M85    Myristicaceae (Nutmeg)
495.M86    Myrothamnaceae
495.M87    Myrsinaceae
495.M9     Myrtaceae (Myrtle)
495.N3    Naiadaceae
495.N33    Nelumbonaceae
495.N35    Nepenthaceae
495.N37    Neuradaceae
495.N6    Nolanaceae
495.N9    Nyctaginaceae (Four-o'clock)
495.N97    Nymphaeaceae (Waterlily)
495.N975    Nyssaceae (Sour gum)
495.O3    Ochnaceae
495.O35    Olacaceae (Tallow-wood)
495.O44    Oleaceae (Olive)
495.O446    Oliniaceae
495.O46    Onagraceae (Evening-primrose)
495.O62    Opiliaceae
495.O64    Orchidaceae (Orchid)
495.O74    Orobanchaceae (Broomrape)
495.O98    Oxalidaceae (Wood sorrel)
495.P15    Paeoniaceae
495.P17    Palmae (Palm)
495.P175    Pandaceae
495.P18    Pandanaceae (Screw pine)
495.P22    Papaveraceae (Poppy)
           Papaverales see QK495.A12
495.P28    Passifloraceae (Passionflower)
495.P42    Pedaliaceae (Benne)
495.P43    Penaeaceae
495.P44    Pentaphragmataceae
495.P445    Pentaphylacaceae
           Peperomiae see QK495.P67
Spermatophyta. Phanerogams
Systematic divisions
Angiosperms
By family, A-Z -- Continued

495.P446        Peridiscaceae
495.P45         Philydraceae
495.P453        Phyrmaceae (Lopseed)
495.P454        Phytolaccaceae (Poke)
495.P5          Picrodendraceae
495.P67         Piperaceae (Pepper)
495.P7          Pittosporaceae
495.P714        Plantaginaceae (Plantain)
495.P72         Platanaceae (Sycamore)
495.P725        Plumbaginaceae (Leadwort)
495.P74         Podostemaceae (Riverweed)
495.P77         Polemoniaceae (Phlox)
495.P775        Polygalaceae (Milkwort)
495.P78         Polygonaceae (Buckwheat)
495.P783        Pontederiaceae (Pickerelweed)
495.P8          Portulacaceae
495.P83         Posidoniaceae
495.P85         Potamogetonaceae (Pondweed)
495.P95         Primulaceae (Primrose)
495.P957        Proteaceae (Silk oak)
495.P9575       Ptaeroxylaceae
495.P958        Punicaceae (Pomegranate)
495.P997        Pyrolaceae
495.Q5          Quinaceae
495.R15         Rafflesiacae
495.R215        Ranunculaceae (Buttercup)
495.R3          Rapateaceae
495.R4          Resedaceae (Mignonette)
495.R42         Restionaceae
495.R45         Rhamnaceae (Coffeeberry)
495.R46         Rhizophoraceae (Mangrove)
495.R465        Rhoipteleaceae
495.R468        Roridulaceae
495.R78         Rosaceae (Rose)
495.R85         Rubiaceae (Madder)
495.R956        Ruppiaceae
495.R98         Rutaceae (Citrus)
495.S15         Sabiaceae
Spermatophyta. Phanerogams
Systematic divisions
Angiosperms
By family, A-Z -- Continued

495.S16                Salicaceae (Willow)
495.S165               Salvadoraceae (Toothbrush tree)
495.S18                Santalaceae (Sandalwood)
495.S19                Sapindaceae (Soapberry)
495.S2                Sapotaceae (Chicle)
495.S225               Sarcolaenaceae
495.S227               Sarcospermataceae
495.S23               Sargentodoxaceae
495.S24               Saraceniaceae (Pitcher plant)
495.S27               Saururaceae (Lizard's-tail)
495.S3                Saxifragaceae (Saxifrage)
495.S35               Scheuchzeriaceae
495.S353              Schisandraceae (Bay-star vine)
   Scitamineae see QK495.A14
495.S43               Scrophulariaceae (Figwort; snapdragon)
495.S45               Scyphostegiaceae
495.S47               Scytopetalaceae
495.S59               Simaroubaceae (Tree of heaven)
495.S62               Siparunaceae
495.S65               Smilacaceae
495.S7                Solanaceae (Nightshade)
495.S74               Sonneratiaceae
495.S745              Sparganiaceae (Bar-reed)
495.S7455             Sphaerosepalaceae
495.S7456             Sphenocleaceae
495.S76               Stachyuraceae
495.S765             Stackhousiaceae
495.S77               Staphyleaceae (Bladdernut)
495.S78               Stemonaceae
495.S8               Sterculiaceae (Cacao)
495.S85               Strasburgeriaceae
495.S87               Styliaceae
495.S9               Styracaceae (Silverbell tree)
495.S95               Symplacaceae (Sweetleaf)
495.T3               Taccaceae
495.T35              Tamaricaceae (Tamarisk)
495.T355            Tetracentraceae
495.T4              Theaceae (Tea)
495.T45            Theligonaceae
   (495.T455)         Themidaceae
                     see QK495.A83
495.T457            Theophrastaceae (Joewood)
495.T46            Thurniaceae
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495.T48                Thymelaeaceae
495.T5                 Tiliaceae (Linden)
495.T6                 Tovariaceae
495.T66                Trapaceae (Water chestnut)
495.T7                 Tremandraceae
495.T73                Trigoniacaeae
495.T735               Trilliaceae
495.T74                Trimeniacaeae
495.T745               Triuridaceae
495.T75                Trochodendraceae
495.T77                Tropaeolaceae (Nasturtium)
495.T8                 Turneraceae
495.T9                 Typhaceae (Cattail)
495.U4                 Ulmaceae (Elm)
495.U48                Umbelliferae (Parsley)
495.U7                 Urticaceae (Nettle)
495.V3                 Valerianaceae
495.V4                 Velloziaceae
495.V48                Verbenaceae (Verbena)
495.V5                 Violaceae (Violet)
495.V53                Viscaceae
495.V55                Vitaceae (Grape)
495.V6                 Vochysiaceae
495.W5                 Winteraceae
495.X3                 Xanthorrhoeaceae
495.X9                 Xyridaceae (Yelloweyed grass)
495.Z3                 Zannichelliaceae
495.Z5                 Zingiberaceae (Ginger)
495.Z7                 Zosteraceae
495.Z9                 Zygophyllaceae (Creosote-bush)

Cryptogams
Including Archegoniatae
For bacteria see QR1+

504       Periodicals, societies, congresses, serial publications
505       General works, treatises, and textbooks
505.5     Juvenile works
506       Anatomy, physiology, etc.
507       Classification. Systematic works
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509          North America
             United States
510     General works
511.A-Z     By region or state, A-Z
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511.2
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511.3.A-Z
By region or province, A-Z
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511.7
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Mexico
512
General works
512.2.A-Z
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512.4
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512.5
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512.6
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512.7
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513
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514.A-Z
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515
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516
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517
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517.5
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518
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519
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519.5
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520
Periodicals, societies, congresses, serial publications
521
Anatomy, physiology, etc.
522
General works, treatises, and textbooks
522.5
Juvenile works
523
Classification. Systematic works
523.3
Catalogs and collections
524.A-Z
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524.A25
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524.A29
Adiantaceae
(524.A65)
Aspidiaceae
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524.A7
Aspleniaceae
524.A76
Athyriaceae
524.A94
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524.C9
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524.D5
Dennstaedtiaceae
524.D55
Dicksoniaceae
524.D79
Dryopteridaceae
524.E6
Equisetaceae
524.H87
Huperziaceae
524.H9
Hymenophyllaceae
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524.18  
Isoetaceae
524.L64  
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524.L9  
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524.M3  
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524.M4  
Marsileaceae
524.O7  
Ophioglossaceae
524.O8  
Osmundaceae
524.P3  
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524.P7  
Polypodiaceae
524.P77  
Psilotaceae
524.S33  
Salviniaceae
524.S35  
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524.S46  
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524.T54  
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For particular taxa see QK524.A+

524.35  
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524.37  
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524.4  
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524.5  
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524.7  
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525  
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525.5.A-Z  
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525.6  
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525.7.A-Z  
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525.8  
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525.85  
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525.9.A-Z  
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526  
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526.2  
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526.4  
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526.5  
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527  
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528.A-Z Other European regions or countries, A-Z
529 Asia (Table Q3)
530 Africa (Table Q3)
531 Australia
531.5 New Zealand
532 Pacific islands (Table Q3)

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532.4 Periodicals. Societies. Serials
532.42 Congresses
532.5 Dictionaries and encyclopedias

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532.6 General works
532.65.A-Z By region or country, A-Z

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532.7 Collective
532.75.A-Z Individual, A-Z
532.8 Directories
533 General works, treatises, and textbooks
533.3 Juvenile works
533.35 Addresses, essays, lectures

Rare and endangered bryophytes

533.4 General works
533.5.A-Z By region or country, A-Z
533.6 Anatomy, physiology, etc.
533.7 Classification. Systematic works
533.74 Catalogs and collections

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533.8 General works
533.82.A-Z By region or state, A-Z
533.84.A-Z Other regions or countries, A-Z

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534 Periodicals, societies, congresses, serial publications
535 Anatomy, physiology, etc.
537 General works, treatises, and textbooks
537.5 Juvenile works
538 Classification. Systematic works
538.4 Catalogs and collections
539.A-Z Systematic divisions, A-Z
539.A6 Amblystegiaceae
539.B68 Brachytheciaceae
539.B7 Bryaceae
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539.B97 Buxbaumiaceae
539.D5 Dicranaceae
539.F5 Fissidentaceae
539.F6 Fontinalaceae
539.F98 Funariaceae
539.G7 Grimmiaceae
539.H68 Hookeriaceae
539.H95 Hypnobryales
539.H96 Hypoptrygiiaceae
539.M68 Mniaceae
539.O7 Orthotrichaceae
539.P7 Plagiotheciaceae
539.P78 Polytrichaceae
539.P8 Pottiaceae
539.P93 Pterobryaceae
539.S46 Seligeriaceae
539.S75 Sphagnaceae
539.S76 Splachnaceae
539.S84 Stereophyllaceae
539.T58 Timmiaceae

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540.4 General works
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540.5 General works
540.7 Great Lakes region
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541 General works
541.5.A-Z By region or state, A-Z
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541.6 General works
541.7.A-Z By region or province, A-Z
541.8 Latin America
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541.85 General works
541.9.A-Z By region or state, A-Z
542 Central America (Table Q3)
542.2 West Indies. Caribbean area (Table Q3)
542.4 South America (Table Q3)
542.45 Atlantic islands (Table Q3)
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542.5 General works
543 Great Britain
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544.A-Z
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546
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547
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547.5
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548
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549
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549.5
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551
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553
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554
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555.A-Z
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555.A3
   Adelanthaceae
555.A5
   Aneuraceae
(555.A6)
   Anthocerotaceae
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555.B34
   Balantiopsaceae
555.B7
   Bryopteridaceae
555.D5
   Dilaenaceae
555.F6
   Fossombroniaceae
555.F9
   Frullaniaceae
555.G44
   Geocalycaceae
555.G7
   Grimaldaceae
555.H35
   Haplosporiaceae
555.J9
   Jungermanniaceae
555.L37
   Lejeunaceae
555.L4
   Lepidoziaceae
555.L58
   Lophocoleaceae
555.L6
   Lophoziaceae
555.M2
   Marchantiaceae
555.M4
   Metzgeriaceae
555.P45
   Plagiochilaceae
555.P6
   Porellaceae
555.R5
   Ricciaceae
555.S34
   Scapaniaceae
555.T3
   Targioniaceae

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555.4
   General works
   North America
555.5
   General works
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Hepaticae (Liverworts)
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555.7
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556
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556.5.A-Z
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556.6
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556.7.A-Z
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556.8
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556.85
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556.9.A-Z
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557
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557.2
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557.4
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557.45
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557.47.A-Z
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557.47.F34
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557.5
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558
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559.A-Z
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563.5
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563.7
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563.725
Southern hemisphere
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563.75
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563.77
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563.8
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563.84
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563.85.A-Z
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563.85.A57
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563.87.A-Z
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Algae. Algology -- Continued

564.3 Congresses
564.5 Collected works (nonserial)
564.6 Dictionaries and encyclopedias

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564.7 General works
564.73 By region or country, A-Z

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564.75 Collective
564.77 Individual, A-Z
564.8 Directories

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   Including cytology, morphology
565 General works
565.2 Laboratory cultures and technique
565.5 Genetics
566 General works, treatises, and textbooks
566.3 Popular works
566.5 Juvenile works
567 Classification. Systematic works
567.5 Catalogs and collections
568.A-Z Special topics, A-Z
568.B55 Blooms
568.E26 Ecology
   For systematic treatment see QK569.A+
   For geographic treatment see QK570+
568.E85 Evolution
568.M52 Microalgae
   For systematic treatment see QK569.A+
   For geographic treatment see QK570+
568.T67 Toxic algae
   Including toxic marine algae
569.A-Z Systematic divisions, A-Z
569.A27 Acrochaetiaceae
569.A43 Alariaceae
   Audouinellaceae see QK569.A27
569.B15 Bacillariaceae
   Bacillariophyceae. Bacillariophyta see QK569.D54
569.B2 Bangiaceae
569.B25 Batrachospermaceae
569.C37 Caulerpaceae
569.C39 Centrales
569.C4 Ceramiaceae
569.C44 Chaetangiaceae
569.C45 Chaetophoraceae
569.C455 Chaetophorales
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569.C47 Characeae
569.C48 Characiaceae
569.C483 Charophyta
569.C484 Chattonellaceae
569.C486 Chlamydomonadaceae
569.C49 Chlorellaceae
569.C494 Chlorococcaceae
569.C496 Chloroccales
569.C6 Chlorophyta (Green algae)
569.C617 Chromophyta
569.C62 Chrysophyceae
569.C622 Chrysophytes
569.C624 Cladophoraceae
569.C63 Coccolithophoridaceae
569.C65 Codiaeae
569.C73 Coleochaetaceae
569.C8 Corallinaceae
569.C86 Crossocarpaceae
569.C95 Cryptonemiaceae
569.C956 Cyanidiaceae
569.C97 Cystoseiraceae
569.D3 Dasyaceae
569.D33 Dasycladaceae
569.D34 Dasycladales
569.D4 Delesseriaceae
569.D43 Desmerestiaeae
569.D46 Desmidiaeae
Desmidiales see QK569.D46
Desmidiales (Zygnematales) see QK569.Z82
569.D54 Diatoms (Bacillariophyceae. Bacillariophyta.
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569.D55 Dinamoebales
569.D56 Dinoflagellates
Dunaliellaceae see QK569.P65
569.E9 Euglenaceae
569.E93 Euglenids
569.E96 Eustigmatophyceae
569.F64 Florideae
569.F73 Fragilariaceae
569.F95 Fucaceae
569.G4 Gelidiaceae
569.G42 Gelidiales
569.G5 Gigartinaeace
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569.G7  Gonidomataceae
569.G8  Gracilariae
569.H44  Hemidiscaceae
569.H46  Heteropodiaceae
569.K3  Kallymeniaceae
569.L2  Laminariaceae
569.L34  Laminariales
569.L5  Lemaneaceae
569.L53  Lessoniaceae
569.L56  Lithodermataceae
569.M27  Mallomonadaceae
569.P5  Phaeophyta
569.P54  Phyllophoraceae
569.P65  Polyblepharidaceae
569.P68  Porphyridiaceae
569.P9  Prasiolaceae
569.P93  Prochloraceae

(569.P94)  Protococcales
           see QK569.C486
569.P97  Protosiphonaceae
569.P974  Prymnesiophyceae
569.P98  Pseudoanemoniaceae
569.R26  Raphidophyceae
569.R37  Rhodomelaceae
569.R4  Rhodophyta. Rhodophyceae
569.R6  Rhodymeniaceae
569.S2  Sargassaceae
569.S32  Scenedesmaceae
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569.S36
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569.S43
Selenastraceae
569.S53
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569.S56
Siphonocladaeae
569.S7
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Stigonemataeae see QR99.7.S85
569.T47
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569.T73
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569.U46
Udoteaceae
569.U5
Ulotrichaceae
569.U55
Ulvaceae
569.U6
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569.V3
Valoniaceae
569.V35
Vaucheriaceae
569.V9
Volvocaceae
569.V93
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569.Z8
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569.Z82
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For particular taxa see QK569.A+

570
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Physiographic divisions (General)
570.2
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Cf. SH390+ Fisheries
570.25
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570.4
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570.5
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570.7
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571
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571.5.A-Z
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571.6
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571.7.A-Z
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571.8
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571.85
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572.2
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572.4
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572.48
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572.5.A-Z
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572.9
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573
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574.A-Z
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575
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576
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576.5
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577
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577.5
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577.8
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578
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579
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580
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580.5
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580.7
Periodicals. Societies. Serials

580.74
Congresses

580.75
Collected works (nonserial)

580.77
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580.85
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580.86.A-Z
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581
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583
General works, treatises, and textbooks

584
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584.2
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584.6.A-Z
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584.6.E64
Epiphytic lichens

585.A-Z
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585.C28
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585.C3
Cladophoraceae

585.C6
Cladoniaceae

585.C65
Collemataceae

585.G8
Graphidaceae

585.H48
Heppiaceae

585.L37
Lecanoraceae
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585.L4  Lecidiaceae
585.L53  Lichinaceae
585.L63  Lobariaceae
585.M44  Megalosporaceae
585.O63  Opegraphaceae
585.P17  Pannariaceae
585.P2  Parmeliaceae
585.P34  Peltigeraceae
585.P37  Pertusariaceae
585.P45  Physciaceae
585.R35  Ramalinaceae
585.R7  Roccellaceae
585.S64  Sphaerophoraceae
585.S78  Stereocaulaceae
585.S8  Stictaceae
585.T44  Teloschistaceae
585.T48  Thelenellaceae
585.T5  Thelotremataceae
585.T7  Trypetheliaceae
585.U5  Umbilicariaceae
585.V4  Verrucariaceae

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586.4  General works
      North America
586.5  General works
586.7  Great Lakes region
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587  General works
587.5.A-Z  By region or state, A-Z
      Canada
587.6  General works
587.7.A-Z  By region or province, A-Z

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587.8  General works
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587.85  General works
587.9.A-Z  By region or state, A-Z
588  Central America (Table Q3)
588.2  West Indies. Caribbean area (Table Q3)
588.4  South America (Table Q3)

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588.47  General works
588.48.A-Z  By region, group of islands or island, A-Z

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588.5 General works
589 Great Britain
590.A-Z Other European regions or countries, A-Z
591 Asia (Table Q3)
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593 Australia
593.5 New Zealand
594 Pacific islands (Table Q3)
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597 General works
597.2 Greenland
597.3 Spitzbergen
597.5 Antarctica
597.7 Tropics

Fungi
Cf. QR111+ Soil fungi
Cf. QR245+ Pathogenic fungi
Cf. TA423.2+ Decay of wood

600 Periodicals. Societies. Serials
600.2 Collected works (nonserial)
600.3 Congresses
600.35 Dictionaries and encyclopedias

Biography
600.44 Collective
600.45.A-Z Individual, A-Z

Study and teaching. Research
600.47 General works
600.473.A-Z By region or country, A-Z
600.476 Experiments
600.478 Laboratory manuals
600.48 Collection and preservation

Museums. Exhibitions
600.5 General works
600.53.A-Z By region or country, A-Z

Under each country:
.x General works
.x2A-.x2Z Individual. By name, A-Z

Catalogs and collections
600.7 General works
600.73.A-Z By region or country, A-Z

Under each country:
.x General works
.x2A-.x2Z Individual. By name, A-Z
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Fungi -- Continued

601          Anatomy, physiology, etc.
              Including cytology, morphology
602          Genetics, variation, etc.
603          General works, treatises, and textbooks
              Classification. Systematic works
603.2         General works
603.3         Nomenclature
603.5         Juvenile works
604          Special aspects of the subject as a whole
604.2.A-Z     Special topics, A-Z
604.2.A52     Anaerobic fungi
604.2.A56     Antagonistic fungi
              Aquatic fungi see QK617.8+
604.2.C62     Colonies
604.2.C64     Communities
604.2.C66     Conservation
604.2.E26     Ecology
604.2.E27     Economic aspects
604.2.E28     Ecophysiology
              Ectomycorrhizas see QK604.2.M92
              Edible fungi see QK617
604.2.E48     Endangered fungi
604.2.E53     Endomycorrhizas see QK604.2.M92
604.2.E85     Endophytic fungi
604.2.H34     Hallucinogenic mushrooms
604.2.H95     Hypogeous fungi
604.2.I36     Identification
604.2.L53     Lichen-forming fungi
604.2.L54     Lichenicolous fungi
604.2.M64     Molecular biology
604.2.M89     Mycoparasitism
604.2.M92     Mycorrhizas. Mycorrhizal fungi
              Including ectomycorrhizas and endomycorrhizas
              Cf. SB106.M83 Plant culture
604.2.N45     Nematode-destroying fungi
604.2.P45     Phytopathogenic fungi
              Cf. SB733 Control of phytopathogenic fungi and
              fungal diseases of plants
604.2.P56     Pleomorphic fungi
604.2.P64     Poisonous fungi see QK617
604.2.P73     Predacious fungi
604.2.S25     Saprophytic fungi
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Soil fungi see QR111+

604.2.S86  Straminipilous fungi
604.2.W65  Wood-decaying fungi

   Cf. TA423.2+ Deterioration and preservation of wood
604.2.W66  Wood-staining fungi

   Cf. TA423.4 Deterioration and preservation of wood
Yeast fungi see QK617.5
604.2.Z66  Zoosporic fungi

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604.4  General works
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604.5  General works
604.7  Great Lakes region
       United States
605  General works
605.5.A-Z  By region or state, A-Z
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605.6  General works
605.7.A-Z  By region or state, A-Z

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605.8  General works
       Mexico
605.85  General works
605.9.A-Z  By region or state, A-Z
606  Central America (Table Q3)
606.2  West Indies. Caribbean area (Table Q3)
606.4  South America (Table Q3)

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606.5  General works
607  Great Britain
608.A-Z  Other European regions or countries, A-Z
609  Asia (Table Q3)
610  Africa (Table Q3)
611  Australia
611.5  New Zealand
612  Pacific islands (Table Q3)
615  Arctic regions
615.5  Antarctica
615.7  Tropics
617  Edible and poisonous fungi. Mushrooms (Popular works)

   For geographic treatment see QK604.4+
   For systematic treatment see QK621+
   Cf. SB352.85+ Culture
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Fungi -- Continued

617.5  Yeast fungi (General)
       For geographic treatment see QK604.4+
       For systematic treatment see QK621+
       Cf. QR151+ Microorganisms of fermentation
       Cf. TP433 Food processing and manufacture
       Cf. TP580+ Brewing

Aquatic fungi (General)
       For geographic treatment see QK604.4+
       For systematic treatment see QK621+

617.8  General works

618   Marine fungi (General)

618.2  Freshwater fungi (General)

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621.A1  General works, treatises, and textbooks
621.A2-Z  Special, A-Z
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621.B6  Blastocladiaceae
621.C48  Choanephoraceae
621.C5  Chytridiaceae
621.C63  Coelomomyctaceae
621.E3  Ecriniales
621.E47  Endogonaceae
621.E49  Entomophthoraceae
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623.A93
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  623.P5                     Pezizaceae
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  623.P66                    Pleosporaceae
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  623.P93                    Pyrenulaceae
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  625.A1                    General works, treatises, and textbooks
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  625.C76                    Cryptococcaceae
  625.D4                     Dematiaceae
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  625.E9                     Excipulaceae
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  625.L4                     Leptostromataceae
  625.M4                     Melanconiales
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Cf. QK725 Cytology

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640.2       Collected works (nonserial)
640.3       Congresses
640.4       Dictionaries and encyclopedias
641       General works, treatises, and textbooks
642       Pictorial works and atlases
642.5       Addresses, essays, lectures
(643)       Individual plants and groups of plants
            see QK495+

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644       Root and modifications. Root tubercles
            Bacteriology of root nodules see QR113
644.5       Haustoria
            Shoot
            Including buds, apexes, etc.
645       General works
            Stem
            Including bulbs, rhizomes, types of branching
646       General works
646.7       Tree trunks
647       Wood
648       Bark
649       Leaf and modifications. Stipules
650       Appendages
            Including trichomas, thorns, spines, tendrils, scales, hairs, etc.
651       Thallus

Reproductive organs of spermatophytes
652       General works
653       Flower and inflorescence
654       General works
655       Receptacle
656       Perianth
657       General works
658       Calyx
659       Corolla
660       Androecium. Palynology
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661       Gynoecium
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662       Fruit and seed
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663       Seed
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664       Reproductive organs of cryptogams
665       Alternation of generations
666       Teratology

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673
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710.2
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711
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711.2
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711.5
Juvenile works
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714
General works

714.3
Problems, exercises, examinations

714.4
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714.5
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715
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715.5
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717
Plant ecophysiology
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For systematic treatment see QK930+
For physiographic treatment see QK930+

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720
Physiology of the vegetative organs (General)
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725
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728
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Including pattern formation
Cf. QK665 Embryology

731
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740
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745
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   Cf. SB742+ Deficiency diseases
   Cf. SD408 Use of fertilizers
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   Including nutritive matter, etc.
Pollutants
   Cf. SB744.5+ Plant pathology
750
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751
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   Cf. SB745 Plant pathology
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753.A4
   Alkaloids
753.A45
   Aluminum
753.A78
   Arsenic
   Ascorbic acid see QK753.V58
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   Atrazine
753.A8
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753.B4
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753.B6
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753.I54 Insecticides
753.I6 Iodine
753.I7 Iron
753.L37 Latex
753.M27 Magnesium
753.M3 Manganese
753.M47 Metals
753.M56 Minerals
753.M6 Molybdenum
753.N5 Nitrites
753.N54 Nitrogen
753.P37 Pentachlorophenol
753.P4 Petroleum
753.P48 Phosphorus
753.P65 Poisons
753.P67 Polycyclic aromatic hydrocarbons
753.P7 Potassium
753.R33 Radioactive substances
    Cf. SB746 Plant pathology

753.S3 Salt
753.S32 Salts
753.S5 Silicon
753.S57 Sodium fluoride
753.S6 Sodium sulfate
753.S65 Succinic acid
753.S7 Sugars
753.S8 Sulfates
753.S84 Sulfur
753.S85 Sulfur dioxide
753.T5 Thallium
753.T53 Thiamine
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753.T7 Trace elements
753.T75 Tritium
753.V58 Vitamin C
753.X45 Xenobiotics
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Cf. QK870+ Effect of floods, water levels, etc.

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754.4 Atmosphere
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  Cf. QK914 Phenology
  Cf. S600+ Crops and climate
  Cf. SD390.5+ Forests and climate

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754.7.D75
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755
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755.5
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    Including heat production in plants

756
  Cold. Frost
    Cf. SB781 Plant pathology

757
  Radiation
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758
  Electricity

759
  Mechanical forces

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  Volcanic eruptions

760
  Space flight

761
  Periodicity. Dormancy. Photoperiodism
  Aging. Senescence

762.5
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763
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769
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771
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773
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    Nutation. Torsion
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776
  Miscellaneous induced movements
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791
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793
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  826  Asexual reproduction
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  828  Fecundation. Fertilization. Sterility
  830  Flowering
       Cf. SB126.8 Plant culture
  840  Reparative processes. Regeneration
       Cf. SD406 Tree surgery, etc.
  844  Luminescence. Light production
  845  Electrophysiology of plants
       Cf. QK758 Effect of electricity on plants
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  Cf. QK981.3 Biochemical genetics
  Cf. QR148 Microbiological chemistry
  861  General works, treatises, and textbooks
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  865  General works
       Chemical analysis of individual plants
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  867  General works
       Plant-water relationships
       Including general works on the effects of water levels and
       floods on plants
       Cf. SB785 Plant pathology
  870  General works
  871  Absorption of water. Osmosis, sap movements, wilting,
       translocation, etc.
  873  Transpiration. Action of stomata, etc.
  875  Gases in plants
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  897  Miscellaneous products
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  898.A15  Abscisic acid
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898.A18   Adenosine triphosphatase
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898.C5    Chlorophyll
898.C52   Chloroplast DNA
898.C6    Cobalt
898.C94   Cytokinins
898.D44   Deoxyribonucleic acid. DNA
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898.D54   Dimethylpropiothetin

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898.E58   Enzymes
898.E75   Essences and essential oils
898.E8    Ethylene
898.F3    Fatty acids
898.F5    Flavonoids
898.F53   Flavonols
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**Botanical chemistry. Phytochemicals**

Nutrition. Plant food. Assimilation of nitrogen, etc.

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   Nutrition. Plant food. Assimilation of nitrogen, etc.
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898.P66     Phytoalexins
898.P67     Phytochrome
898.P677    Phytoliths
898.P68     Phytomelanes
898.P7      Pigments
898.P73     Plastocyanin
898.P75     Plumieride
898.P756    Polyamines
898.P76     Polymers
898.P764    Polyphenols
898.P77     Polysaccharides
898.P79     Protein kinases
898.P8      Proteins
898.P82     Proteolytic enzymes
898.P84     Protochlorophyllide
898.P97     Pyrrolizidines
898.S43     Seed storage compounds
               For works limited to special compounds see the
               compound, e.g., Proteins see QK898.P8

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898.S48     Sesquiterpene lactones
898.S49     Sesquiterpenes
898.S55     Shikimic acid
898.S64     Solanine
898.S67     Starch
898.S7      Steroids
898.S78     Sugar
898.S8      Sulfur
898.T2      Tannins
898.T4      Terpenes
898.U68     Uric acid
898.U7      Uronic acids
898.V5      Vitamins
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900.2       Congresses
900.4       Dictionaries
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900.7       General works
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   (903) Ecological discussion of areas
       see QK108+
   (905) Plant ecophysiology
       see QK717
909 Illustrations of floral ecology of regions
909.5 Vegetation productivity. Primary productivity
       Cf. QK564+ Algae
       Cf. QK882 Photosynthesis
       Cf. QK933+ Phytoplankton
       Cf. QK938.F6 Forest ecology
910 Vegetation dynamics
911 Vegetative interrelation. Plant communities. Phytosociology
   Plant adaptation
912 General works
913 Acclimatization
       Cf. QK754.5+ Vegetation and climate
914 Phenology
   Nutritive adaptation
915 General works
916 Aquatics, ice plants, dew plants
917 Insectivorous plants. Carnivorous plants
918 Parasites, saprophytes, symbionts
   Protective adaptations
921 General works
922 Epiphytes, xerophytes, salt-marsh and desert plants
       Cf. QK938.D4 Desert flora
       Cf. QK938.S27 Salt marsh flora
923 Spines, secretion, raphides
924 Myrmecophilism, acarophilism
924.5 Plant canopies
   Reproductive interrelation
925 General works
926 Pollination
929 Dissemination
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       For geographic treatment see QK108+
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930 General works
931 Marine
       Cf. QK938.C6 Coasts
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932 General works
932.7 Streams
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938.B8                Burned land
938.C3                Caves
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938.C55                Cloud forest plants
938.C6                Coasts
938.D4                Deserts
938.D9                Dunes
938.F6                Forests
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    Cf. QK938.M27 Mangrove forests and swamps
    Cf. QK938.R34 Rain forests
    Cf. QK938.T34 Taigas
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938.H4                Heathlands
938.H44                Hedges. Hegerows
938.I84                Islands
938.L5                Limestone, chalk, etc.
938.M27                Mangrove forests and swamps
938.M3                Marshes, bogs, swamps, etc.
    Cf. QK938.M27 Mangrove forests and swamps
    Cf. QK938.P42 Peat bogs
938.M4                Meadows, pastures
938.M45                Mediterranean-type plants
    Cf. QK314.5 Mediterranean Region
938.M6                Moors
938.P3                Paramos
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938.P42                Peatlands. Peat bogs
938.P7                Prairies. Grasslands. Velds
938.R34                Rain forests
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   Cf. QK938.M27 Margrove forests and swamps
938.S3 Sand barrens
938.S36 Seashore
938.S4 Semiarid regions
938.S45 Serpentines
938.S57 Shrublands
   Swamps see QK938.M3
938.T34 Taigas
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938.T8 Tundras
   Velds see QK938.P7
938.V5 Vineyards
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   For works limited to specific divisions, classes, etc. see
   QK494+
   For works limited to special crops see SB177.A+
980 General works
Genetics
981 General works
981.3 Biochemical genetics
981.35 Cytogenetics
981.4 Molecular genetics
981.45 Genome mapping
981.5 Genetic engineering
981.7 Germplasm resources
   Cf. SB123.3+ Crop germplasm resources
982 Hybridization
983 Variation
985 Selection, natural and artificial
   For works limited to plant-breeding see SB123+
987 Degeneration
989 Phylogeny
Zoology
   For animal ecology see QH540+
   For animal culture see SF1+

1    Periodicals, societies, congresses, serial publications
3    Collected works (nonserial)
5    Voyages and expeditions
7    Encyclopedias
9    Dictionaries

Communication of information
   9.2       General works
   9.3       Information services
   9.4       Computer network resources
               Including the Internet

Classification. Nomenclature see QL351+

10   Terminology, notation, abbreviations
     Cf. QL353+ Nomenclature

History
   15       General works
21.A-Z    By region or country, A-Z

Biography
   26       Collective
               e.g.
31.A9    Audubon
31.C9    Cuvier

35    Directories
       General works and treatises

41       Early through 1759
45       1760-1969
45.2     1970-

46    Pictorial works and atlases
46.5    Zoological illustrating

Textbooks
   Advanced
       Through 1969
47.2     Through 1969

Elementary
       1970-
48       1970-
48.2

49    Juvenile works
     Cf. SF75.5 Domestic animals

50    Popular works
       For stories and anecdotes see QL791+
50.5    Zoology as a profession. Vocational guidance

Study and teaching. Research
   General works
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51.2.A-Z  By region or country, A-Z
  Each region or country subarranged by author

51.5  Problems, exercises, examinations

52  Outlines, syllabi

52.55  Activity programs

52.6  Experiments

53  Laboratory manuals
  Cf. QL812+ Anatomy
  Cf. QP44 Physiology

55  Laboratory animals
  Class here general works only. Prefer systematic divisions for particular groups of animals
  Cf. SF405.5+ Breeding and care
  Cf. SF996.5 Diseases

57  Audiovisual aids

58  Other special

59  Wildlife attracting
  Including gardening to attract wildlife

60  Wildlife watching
  Including wildlife viewing sites

60.4  Radio tracking

60.5  Wildlife marking
  Cf. QL645.6+ Amphibians and reptiles
  Cf. QL677.5 Birds

60.7  Age determination

Collection and preservation
  Class here general works only. For works on collecting particular animals or the fauna of particular places, see systematic or geographical subdivisions in QL
  Cf. QL465 Insects
  Cf. QL677.7 Birds

61  General works, treatises, and textbooks

62  Collecting techniques

62.5  General works

62.5  Immobilization
  Cf. SF760.A55 Veterinary medicine

63  Taxidermy
  Cf. QL618.6 Fish mounting

64  Models and modelmaking

67  Preservation techniques

Laboratories, institutes, university departments, etc.
  Class here descriptions, catalogs, annual reports, etc.
  For serial research publications see QL1

69.A1  General works

69.A3-Z  By region or country, A-Z
  Subarrange each country by Table Q6
Museums. Exhibitions
Class here descriptions, catalogs, annual reports, etc.
For serial research publications see QL1

71.A1
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71.A2-Z
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72
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73.A1
General works
73.A2-Z
By region or country, A-Z
Subarrange each country by Table Q5

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76
General works
76.5.A-Z
By region or country, A-Z
Subarrange each country by Table Q5

77.5
Zoo animals
Cf. SF408+ Culture and care
Cf. SF995.84+ Veterinary medicine

Public aquariums
Cf. SF456+ Home aquariums

78
General and freshwater aquariums
78.5
Marine aquariums. Saltwater aquariums
79.A-Z
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Subarrange each country by Table Q5

81
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Wildlife conservation. Rare animals. Endangered species.
Wildlife refuges. Wildlife habitat improvement
Including rare and endangered vertebrates
For conservation of particular animals and groups of animals, see QL366+
For habitat improvement of game animals see SK356.W54
Cf. HE5620.W54 Wildlife and traffic safety
Cf. QL676.5+ Bird refuges
Cf. SK351+ Wildlife management. Game protection
Cf. SK590+ Wild animal trade

81.5
Periodicals. Societies. Congresses
81.7
History (General)
For history of a particular place see QL84+

82
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83
Juvenile works
83.15
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83.17
Wildlife monitoring
For local see QL101+
83.2
Wildlife rescue
Including wildlife relocation and replacement, rescue of injured or orphaned animals, etc.
Cf. SF996.45 Wildlife rehabilitation
Wildlife conservation. Rare animals. Endangered species.
   Wildlife refuges. Wildlife habitat improvement -- Continued

83.4
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   By region or country
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84
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   United States

84.2
   General works

84.22.A-Z
   By region or state, A-Z
   Canada

84.24
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84.26.A-Z
   By region or province, A-Z

84.28
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   Central America

84.285.A1
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84.285.A3-Z
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84.29.A1
   General works

84.29.A3-Z
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84.3.A1
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84.3.A3-Z
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84.4.A1
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84.4.A3-Z
   By region, country, or island, A-Z
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84.5.A1
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84.5.A3-Z
   By region, country, or island, A-Z
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84.6.A1
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84.6.A3-Z
   By region, country, or island, A-Z
   Australia and Indo-Pacific islands

84.7.A1
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84.7.A3-Z
   Other. By region, country, or island, A-Z

85
   Animals and civilization. Human-animal relationships

86
   Animal introduction. Introduced animals
   For local see QL101+
   Cf. QL606 Introduced vertebrates
   Cf. SB990+ Pest introduction
   Cf. SF87 Acclimatization of livestock

87
   Animals in the ancient world
   Bible zoology see BS663

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Cf. QL81.5+ Endangered animals
Cf. QL676.8 Extinct birds
Cf. QL707 Extinct mammals

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88.15.A-Z
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Living fossils

Alleged animals
Cf. BF1484 Animal ghosts
Cf. GR705+ Animal folklore
Cf. GR825+ Mythical animals
Cf. GR910 Mermaids. Sea monsters

89
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89.2.A-Z
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89.2.B43
Beast of Exmoor
89.2.C37
Carcharocles megalodon
Cf. QE852.L35 Paleozoology
89.2.C53
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89.2.C57
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89.2.D68
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89.2.K73
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99
Medical zoology
Cf. RA639+ Transmission of disease

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Cf. QL68.8 Insects
Cf. QL618.7 Fishes
Cf. QP631+ Toxins, venom, poisons

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   Cf. QR111+ Soil microorganisms
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120 General works, treatises, and textbooks
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122 Popular works
122.2 Juvenile works
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125.5  Deep-sea
125.6  Hydrothermal vents
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126.5  Antarctic Ocean
127    Atlantic Ocean
128    General works
129    North Atlantic Ocean. North Sea, etc.
131    Baltic Sea
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133    Mediterranean Sea
134    Gulf of Mexico
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135    South Atlantic Ocean
137    Indian Ocean. Red Sea
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138    Pacific Ocean
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144    Zooplankton
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147    Springs
         Including hot springs
148    Wells
149    Stagnant water
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150    General works
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157.M52  Middle Atlantic States
157.M53  Middle West
157.N48  New England
157.N67  Northeastern States
157.P33  Pacific Coast

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229.H57 Hispaniola
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   245                      Ecuador
                       For Galapagos Islands see QL345.G2
   246                      Guyana (British Guiana)
   246.2                     Suriname (Dutch Guiana)
   246.4                     French Guiana
   247                      Paraguay
   247.4                     Paraná River
   248                      Peru
   249                      Uruguay
   251                      Venezuela

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   252.C35                Cape Verde. Cabo Verde
   252.F32                Faroe Islands

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   253             General works
   254             Regions not limited to a single country (not A-Z)
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   255                General works
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   Cf. QL331 Russia in Asia. Siberia. Russian Far East
   Cf. QL332+ Central Asia
   Cf. QL333.7 Caucasus

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   For individual Balkan countries see QL298.A+
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333.7    Caucasus
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334.B34  Bangladesh
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334.C4                Ceylon. Sri Lanka
334.M53                Middle East
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334.O53                Oman
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337.A-Z             By region or country, A-Z
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337.B44                Benin
337.B68                Botswana. Bechuanaland
337.B8                British East Africa
337.B9                Burkina Faso. Upper Volta
337.B94                Burundi
337.C25                Cameroon
                     Cabo Verde see QL252.C35
337.C43                Central Africa
337.C44                Central African Republic
337.C48                Chad
337.C57                Congo (Brazzaville)
337.C58                Congo (Democratic Republic). Zaire
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337.D53                Djibouti
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337.E3                Egypt
337.E75                Equatorial Guinea
337.E76                Eritrea
337.E8                Ethiopia
337.F7                French-speaking Equatorial Africa
337.F75                French-speaking West Africa
337.G32                Gabon
337.G34                Gambia
337.G56                Ghana
337.G77                Guinea
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<td>Southwest Africa see QL337.N27</td>
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<td>Sub-Saharan Africa</td>
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<td>Swaziland</td>
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337.6.M36
   Mauritius
337.6.S49
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339.A-Z
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345.A1
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345.F53
   Fiji
345.G2
   Galapagos Islands
345.G83
   Guam
345.H3
   Hawaii
345.K47
   Kermadec Islands
345.M3
   Marquesas Islands
345.M34
   Marshall Islands
345.M53
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345.N3
   New Caledonia
      New Guinea see QL322.5
345.P35
   Palau
      Ryukyu Islands see QL325.3
345.T3
   Tahiti
345.T65
   Tonga
      Arctic regions, Antarctica see QL104+
         Tropics see QL109
Classification. Systematics and taxonomy
351
   Principles
352
   Systems
353
   Nomenclature
      General works. Principles
354
   Nomenclators and checklists
355
   Popular names
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360
   Dictionaries and encyclopedias
362
   General works, treatises, and textbooks
362.4
   Juvenile works
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Rare and endangered species

362.45          General works
362.46.A-Z       By region or country, A-Z
362.5           Classification
362.7           Catalogs and collections
362.75          Evolution
362.8           Methods, culture, etc.
362.85          Immunology
362.9           Genetics
363           Anatomy and morphology
363.5           Metamorphosis
363.8           Cytology
364           Physiology
364.15          Reproduction
364.18          Development
                     Including larvae
364.2           Behavior
364.3           Feeding and feeds
364.4           Ecology
364.5           Coloniality. Animal colonies
                     Class here works on groupings of physically interconnected
                     animals having a common ancestry through asexual
                     reproduction
365           Animalcules. Early works on infusoria
Geographical distribution
                     For geographical distribution of systematic divisions, see the
                     division, e. g. QL366+, Protozoa
365.3          General works
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365.34          Soil
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365.36          General works
365.363         Marine
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365.4          North America (United States and Canada) (Table Q3)
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365.55             New Zealand
365.56             Pacific Ocean and islands. Oceania (Table Q3)
365.57             Arctic Ocean and regions
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365.6             Tropics

Protozoa

Cf. QR251+ Pathogenic protozoa

366          General works, treatises, and textbooks
366.5          Classification

Geographical distribution

For geographical distribution of systematic divisions
see QL368.A115+

367          General works
367.1          North America (United States and Canada) (Table Q3)
367.2          Mexico, Central America, and West Indies (Table Q3)
367.3          South America (Table Q3)
367.4          Europe (Table Q3)
367.5          Asia (Table Q3)
367.6          Africa (Table Q3)
367.7          Australia
367.75          New Zealand
367.8          Pacific islands (Table Q3)
367.9          Arctic regions
367.95          Antarctica
367.96          Tropics

Systematic divisions

368.A115          Plasmodroma
368.A12          Mastigophora (Phytomastigia; Zoomastigia). Flagellata
368.A14          Sarcodina (Rhizopoda; Actinopoda)
368.A16          Apicomplexa (Sporozoa)
368.A18          Cnidosporidia
368.A2          Ciliophora
368.A22          Ciliata (Holotricha; Spirotricha; Peritricha)
                   Suctoria see QL368.S9
368.A3-Z          By order or higher taxa, A-Z
                   Class works on species, genera, and families by order
368.A32          Acantharia
368.A33          Acanthometrida
368.A335         Acanthophraeactida
368.A36          Aconchulinida
368.A38          Acrasida
368.A4          Actinomyxida
368.A44          Actinophryida
368.A5          Amoebida

396
Invertebrates
Protozoa
Systematic divisions
By order or higher taxa, A-Z -- Continued

368.A57 Apostomatida
368.A63 Arcellinida
368.A66 Archigregarinida
368.A8 Astomatida
368.A85 Athalamida
368.B5 Bicosoecida
368.B55 Blastocystida
368.C4 Centrohelida
368.C48 Chloromonadida
368.C5 Choanoflagellida
368.C54 Chonotrichida
368.C57 Chrysomonadida
368.C59 Coccidia
368.C6 Coccolithophorida
368.C8 Cryptomonadida
368.D4 Desmothoracida
368.D65 Diplomonadida
368.E2 Ebrida
368.E5 Entodiniomorphida
368.E92 Eugregarinida
368.E95 Eumycetosoida
368.F6 Foraminiferida
368.G8 Gregarinida
368.G85 Gromiida
368.G9 Gymnostomatida
368.H33 Haemosporida
368.H34 Haplosporida
368.H4 Helicosporida
368.H5 Heliozoida
368.H53 Heterochlorida. Xanthomonadida
368.H55 Heterotrichida
368.H87 Hymenostomatida
368.H9 Hypermastigida
368.H95 Hypotrichida
368.K5 Kinetoplastida
368.L3 Labyrinthulida
368.L62 Lobosa

397
Invertebrates
Protozoa
Systematic divisions
By order or higher taxa, A-Z -- Continued

368.M5               Microsporida
368.M78              Mycetozoida
368.M8               Myxosporida
368.N4               Neogregarinida
368.O3               Oculosida
368.O4               Odontostomatida. Ctenostomatida
368.O5               Oligotrichida
368.O7               Opalinida
368.O9               Oxynomadida
368.P4               Peritrichida
Phytomonadida see QL368.V6
368.P52              Piroplasmida
368.P55              Plasmodiophorida
368.P62              Polymastigida
368.P65              Porulosida
368.P7               Proteomyxida
368.P74              Protococcida
Protomastigida see QL368.P76
368.P76              Protomonadida. Protomastigida
368.R2               Radiolarida
368.R43              Retortamonadida
368.R5               Rhizomastigida
Sarcosporida see QL368.T6
(368.S5)             Silicoflagellida
see QK569.S53
368.S9               Suctorida
368.T4               Testacida
368.T5               Thigmotrichida
368.T55              Tintinnida
368.T6               Toxoplasma. Sarcosporida
368.T7               Trichomonadida
368.T76              Trichostomatida
368.V6               Volvocida. Phytomonadida
Xanthomonadida see QL368.H53
368.X4               Xenophyophorida
368.Z66              Zooflagellates
369                Anatomy and morphology
369.2               Physiology
Porifera (Sponges)
370.7               Periodicals, societies, congresses, serial collections
371                General works, treatises, and textbooks
371.2               Pictorial works and atlases
371.4               Popular works
Invertebrates
Porifera (Sponges) -- Continued

371.6
Juvenile works

Geographical distribution
For geographical distribution of systematic divisions
see QL373.A+

372
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372.1
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372.2
Mexico, Central America, and West Indies (Table Q3)
372.3
South America (Table Q3)
372.4
Europe (Table Q3)
372.5
Asia (Table Q3)
372.6
Africa (Table Q3)
372.7
Australia
372.75
New Zealand
372.8
Pacific islands (Table Q3)
372.9
Arctic regions
372.95
Antarctica
372.96
Tropics
373.A-Z
Systematic divisions. By class, A-Z
Class here works on species, genera, families and orders
373.C2
Calcispongiae (Calcarea)
373.D4
Demospongiae
373.H6
Hyalospongea (Hexactinellida)
374
Anatomy and morphology
374.2
Physiology

Cnidaria
375
General works, treatises, and textbooks
375.2
Pictorial works and atlases
375.4
Popular works
375.6
Juvenile works

Geographical distribution
For geographical distribution of systematic divisions
see QL377.A+

376
General works
376.1
North America (United States and Canada) (Table Q3)
376.2
Mexico, Central America, and West Indies (Table Q3)
376.3
South America (Table Q3)
376.4
Europe (Table Q3)
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Pacific islands (Table Q3)
376.9
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376.95
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376.96
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Cnidaria -- Continued

          Anthozoa (Corals)
377.C5   General works
377.C6   Alcyonaria
377.C7   Zoantharia
          Ctenophora see QL380+
377.H9   Hydrozoa (Hydromedusae; hydroids)
377.S4   Scyphozoa (Scyphomedusae; jellyfish)
378      Anatomy and morphology
378.2    Physiology
379      Zoophyta (old sense)

Ctenophora
380      General works, treatises, and textbooks
Geographical distribution
          For geographical distribution of systematic divisions
          see QL380.5.A+
380.3    General works
380.32   North America (United States and Canada) (Table Q3)
380.35   Mexico, Central America, and West Indies (Table Q3)
380.37   South America (Table Q3)
380.4    Europe (Table Q3)
380.42   Asia (Table Q3)
380.44   Africa (Table Q3)
380.46   Australasia and Indo-Pacific islands (Table Q3)
380.48   Polar regions
380.49   Tropics
380.5.A-Z  Systematic divisions. By classes and orders
          Class works on species, genera, and families by order
380.5.N8-.N83  Nuda
380.5.N8    General works
380.5.N83   Beroida
380.5.T4-.T47  Tentaculata
380.5.T4    General works
380.5.T42   Cestida
380.5.T429  Cydippida
380.5.T45   Lobata
380.5.T47   Platycotenea
380.7      Anatomy and morphology
380.8      Physiology

Echinodermata
381      General works, treatises, and textbooks
382      Classification
382.2    Catalogs and collections
Invertebrates

Echinodermata -- Continued

Geographical distribution

For geographical distribution of systematic divisions
see QL384.A+

383
  General works
383.1 North America (United States and Canada) (Table Q3)
383.2 Mexico, Central America, and West Indies (Table Q3)
383.3 South America (Table Q3)
383.35 Atlantic islands (Table Q3)
383.4 Europe (Table Q3)
383.5 Asia (Table Q3)
383.6 Africa (Table Q3)
383.7 Australia
383.75 New Zealand
383.8 Pacific islands (Table Q3)
383.9 Arctic regions
383.95 Antarctica
383.96 Tropics
  Class works on species, genera, families, and orders by class
384.A8 Asteroidea (Starfishes)
384.C8 Crinoidea
384.E2 Echinoidea (Sea urchins)
384.H7 Holothurioidea (Sea cucumbers)
384.O6 Ophiuroidea (Brittle stars)
385 Anatomy and morphology
385.2 Physiology

Worms and other vermiform invertebrates

386.A1 Periodicals, societies, congresses, serial publications
386.A3-Z General works, treatises, and textbooks
  Cf. QL392.A1+ Helminthology
386.6 Juvenile works
387 Classification
387.2 Catalogs and collections

Geographical distribution

For geographical distribution of systematic divisions
see QL391.A+

388 General works, treatises, and textbooks
388.1 North America (United States and Canada) (Table Q3)
388.2 Mexico, Central America, and West Indies (Table Q3)
388.3 South America (Table Q3)
388.4 Europe (Table Q3)
388.5 Asia (Table Q3)
388.6 Africa (Table Q3)
388.7 Australia
388.75 New Zealand
Invertebrates
Worms and other vermiform invertebrates

Geographical distribution -- Continued

388.8 Pacific islands (Table Q3)
388.9 Arctic regions
388.95 Antarctica
388.96 Tropics
391.A2 Acanthocephala (Spiny-headed worms)
391.A6 Annelida (Segmented worms)
Cestoda see QL391.P7
391.C6 Chaetognatha (Arrowworms)
391.E2 Echiura
391.G2 Gephyrea (Gastrotricha) see QL391.E2
Gephyrea (Sipuncula) see QL391.S5
391.G63 Gnathostomulida
Hirudinea see QL391.A6
391.K5 Kinorhyncha (Echinodera)
391.L67 Loricifera
391.M4 Mesozoa
  Including Orthonectida and Rhombozoa
391.N4 Nematoda (Roundworms)
391.N5 Nematomorpha (Gordiacea; horsehair worms)
391.N6 Nemertina (Rhynchozoa; ribbonworms)
Oligochaeta see QL391.A6
Onychophora see QL448+
Orthonectida see QL391.M4
Pentastomida see QL447.3
391.P5 Phoronida
391.P7 Platyhelminthes (Flatworms)
(391.P85) Pogonophora
see QL391.A6
Polychaeta see QL391.A6
391.P93 Priapulida
Rhombozoa see QL391.M4
391.R8 Rotifera
391.S5 Sipuncula
Trematoda see QL391.P7
Turbellaria see QL391.P7
Helminthology
  For geographic treatment see QL388+
392.A1 Periodicals, societies, congresses, serial publications
392.A3-Z General works, treatises, and textbooks
393 Anatomy and morphology
394 Physiology
Brachiopoda (Lamp shells)
Invertebrates

Brachiopoda (Lamp shells) -- Continued

395 General works, treatises, and textbooks
395.1 Classification
395.15 Catalogs and collectors

Geographical distribution

For geographical distribution of systematic divisions see QL395.8.A+

395.2 North America (United States and Canada) (Table Q3)
395.23 Mexico, Central America, and West Indies (Table Q3)
395.25 South America (Table Q3)
395.3 Europe (Table Q3)
395.4 Asia (Table Q3)
395.5 Africa (Table Q3)
395.6 Australia
395.63 New Zealand
395.67 Pacific islands (Table Q3)
395.7 Arctic regions
395.75 Antarctica
395.76 Tropics

Class here works on species, genera, and families

For works on higher taxa, see QL395+

395.8.C7 Craniidae
395.8.L7 Lingulidae
395.8.R5 Rhyynchonellidae
395.8.T39 Terebrataliidae
395.8.T4 Terebratulidae
395.9 Anatomy and morphology
395.95 Physiology

Bryozoa (Ectoprocta; Polyzoa)

396 General works, treatises, and textbooks
396.5 Classification
396.7 Catalogs and collections

Geographical distribution

For geographical distribution of systematic divisions see QL398.A+

397 General works
397.1 North America (United States and Canada) (Table Q3)
397.2 Mexico, Central America, and West Indies (Table Q3)
397.3 South America (Table Q3)
397.4 Europe (Table Q3)
397.5 Asia (Table Q3)
397.6 Africa (Table Q3)
397.7 Australia
397.75 New Zealand
397.8 Pacific islands (Table Q3)
Invertebrates

Bryozoa (Ectoprocta; Polyzoa)

Geographical distribution -- Continued

397.9     Arctic regions
397.95    Antarctica
397.96    Tropics
            Class here works on species, genera, families, and orders
            Class higher taxa in+
398.C5    Cheilostomata
398.C8    Ctenostomata
398.C9    Cyclostomata
            Ectoprocta see QL396+
            Entoprocta see QL400+
398.L6    Lophopoda
399       Anatomy and morphology
399.2     Physiology

Entoprocta (Callyssozoa; Endoprocta)

400       General works, treatises, and textbooks

Geographical distribution
            For geographical distribution of systematic divisions
            see QL400.5.A+
400.3     General works
400.32    North America (United States and Canada) (Table Q3)
400.35    Mexico, Central America, and West Indies (Table Q3)
400.37    South America (Table Q3)
400.4     Europe (Table Q3)
400.42    Asia (Table Q3)
400.44    Africa (Table Q3)
400.46    Australasia and the Indo-Pacific islands (Table Q3)
400.48    Polar regions
400.49    Tropics
400.5.A-Z Systematic divisions. By family, A-Z
            Class here works on species, genera, and families
            Class higher taxa in QL400+
400.5.L6  Loxosomatidae
400.5.P4  Pedicillinidae
400.5.U7  Urnatellidae

Mollusca
            Cf. SH365+ Oyster culture and fisheries
401       Periodicals, societies, congresses, serial publications
402       Collected works (nonserial)
402.3     Dictionaries and encyclopedias
403       General works, treatises, and textbooks
404       Pictorial works and atlases
405       Popular works
405.2     Juvenile works
Invertebrates
Mollusca -- Continued

Rare and endangered species
405.4 General works
405.43.A-Z By region or country, A-Z
406 Classification
406.2 Catalogs and collections
406.5 Collection and preservation
406.55 Museums. Exhibitions
406.7 Evolution. Phylogeny. Speciation

Geographical distribution
For geographic distribution of systematic divisions see QL430.1+

Physiographic divisions
Land
407 General works
407.5 Freshwater
Marine
For mollusks of particular coasts and islands see QL411+
408 General works
408.2 Atlantic Ocean
   Cf. QL424.5 Atlantic islands
408.5 Pacific Ocean
   Cf. QL428.5 Pacific islands
408.7 Indian Ocean

Topographical divisions
North America
411 General works
413 Canada
   United States
414 General works
415.A-Z By region or state, A-Z
416 Atlantic Coast
417 Pacific Coast
(418) Pacific islands
   see QL428.5
419 Gulf Coast

Latin America
420 General works
421 Mexico
422 Central America (Table Q3)
423 West Indies (Table Q3)
424 South America (Table Q3)
424.5 Atlantic islands (Table Q3)
425 Europe (Table Q3)
426 Asia (Table Q3)
Invertebrates
Mollusca

Geographical distribution

Topographical divisions -- Continued

427          Africa (Table Q3)
428          Australia
428.2        New Zealand
428.5        Pacific islands (Table Q3)
429          Arctic regions
429.5        Antarctica
429.6        Tropics

Systematic divisions

Aplacophora (Solenogasters)

430.12       General works and orders
430.12.P76    Pronoeomeniidae

Polyplacophora (Chitons)

430.13       General works and orders
430.14.A26    Acanthochitonidae
430.14.C47    Chitonidae
430.14.I83    Ischnochitonidae
430.14.M64    Mopaliidae
430.15       Monoplacophora

Cephalopoda

430.2        General works and orders
430.3.A-Z     By family, A-Z
430.3.A73     Architeuthidae
430.3.B3      Bathyteuthidae
430.3.C72     Cranchiidae
430.3.C9      Cycloteuthidae
430.3.E56     Enoplooteuthidae
430.3.G66     Gonatidae
430.3.J68     Joubiniteuthidae
430.3.L8      Loliginidae
430.3.N4      Nautilidae
430.3.O2      Octopodidae (Octopuses)
430.3.O5      Ommastrephidae
430.3.O6      Onychoteuthidae
430.3.S47     Sepiidae
430.3.S49     Sepiolidae (Bobtail squids)
430.3.S65     Spirulidae
430.3.V35     Vampyroteuthidae

Gastropoda (Snails)

430.4        General works and orders
430.5.A-Z     By family, A-Z
                  Abalones see QL430.5.H34
Invertebrates
Mollusca
Systematic divisions
Gastropoda (Snails)
By family, A-Z -- Continued

430.5.A18      Abyssochrysidae
430.5.A2       Achatinellidae
430.5.A22      Achatinidae
430.5.A23      Aciculidae
430.5.A24      Acididae
430.5.A26      Acmaeidae
430.5.A28      Acroloxidae
430.5.A29      Actaeonidae
430.5.A45      Aeolidiidae
430.5.A5       Amastridae
430.5.A57      Ampullariidae
430.5.A63      Ancylidae
430.5.A66      Aplysiidae
430.5.A69      Architectonicidae
430.5.A7       Arionidae
430.5.A74      Arminidae
430.5.A8       Atlantidae
430.5.A85      Atyidae
                 Auriculidae see QL430.5.E45
430.5.B37      Batillariidae
430.5.B58      Bithyniidae
430.5.B73      Bradybaenidae
430.5.B75      Buccinidae
430.5.B8       Bulimulidae
430.5.B84      Bulinidae
430.5.B87      Busyconidae
430.5.C18      Caecidae
430.5.C22      Calyptraeidae
430.5.C25      Camaenidae
430.5.C26      Cancellariidae
430.5.C3       Cassidae
430.5.C35      Cavolinidae
430.5.C38      Cerionidae
430.5.C4       Cerithiidae
430.5.C43      Cerithiopsidae
430.5.C49      Chilinidae
430.5.C53      Chondropomatidae
430.5.C56      Chromodorididae
430.5.C57      Clausiliidae
430.5.C6       Clionidae
430.5.C73      Columbellidae
Invertebrates
Mollusca
Systematic divisions
Gastropoda (Snails)
By family, A-Z -- Continued

430.5.C75

Conidae
Cowries see QL430.5.C94

430.5.C82

Cyclophoridae
Cyclostomidae see QL430.5.P63
Cylindrellidae see QL430.5.U68

(430.5.C93)

Cymatiidae
see QL430.5.R35

430.5.C94

Cypraeidae (Cowries)

430.5.D43

Diastomatidae

430.5.D55

Dolabriferidae

430.5.D6

Dorididae

430.5.E45

Ellobiidae

430.5.E48

Elysidae

430.5.E5

Endodontidae

430.5.E55

Entoconchidae

430.5.E6

Epitonidae

430.5.E9

Eulimidae

430.5.F2

Fasciolariidae

430.5.F53

Ficidae

430.5.F57

Fissurellidae

430.5.F58

Flabellinidae

430.5.G34

Gadiniidae

430.5.H34

Haliotidae (Abalones)

430.5.H37

Helicarionidae

430.5.H4

Helicidae

430.5.H45

Helicinidae

430.5.H46

Helminthoglyptidae
Hermaeidae see QL430.5.S75

430.5.H9

Hydrobiidae

430.5.J3

Janellidae

430.5.J36

Janthinidae

430.5.J8

Juliidae

430.5.L2

Lamellariidae

430.5.L33

Lepetidae

430.5.L4

Limacidae
Limnaeidae see QL430.5.L85

430.5.L58

Littorinidae

430.5.L85

Lymnaeidae

430.5.M3

Marginellidae
Melaniidae see QL430.5.T45

430.5.M44

Melanopsidae

430.5.M47

Melongenidae
Invertebrates
Mollusca
Systematic divisions
Gastropoda (Snails)
By family, A-Z -- Continued

430.5.M57                   Mitridae
430.5.M9                   Muricidae
430.5.N27                   Nacellidae
430.5.N3                   Nassariidae
430.5.N35                   Naticidae
430.5.N5                   Neritidae
430.5.O5                   Olividae
430.5.O73                   Oreohelicidae
430.5.O78                   Orthalicidae
430.5.P15                   Partulidae
430.5.P18                   Patelliidae
430.5.P2                   Personidae
430.5.P23                   Phasianellidae
430.5.P25                   Philomyidae
430.5.P33                   Phyllidae
430.5.P35                   Phylliidae
430.5.P37                   Physidae
430.5.P46                   Planaxidae
430.5.P48                   Planorbidae
430.5.P49                   Pleurobranchidae
430.5.P5                   Pleuroceridae
430.5.P6                   Polygyridae
430.5.P63                   Pomatiidae
430.5.P64                   Pomatiopsidae
430.5.P68                   Potamididae
Proserpinidae see QL430.5.H45
430.5.P9                   Pupillidae
430.5.P92                   Pupinidae
430.5.P95                   Pyraminellidae
430.5.R35                   Ranellidae
430.5.R45                   Rhodopidae
430.5.R48                   Rhytididae
430.5.R57                   Rissoidea
Scalariidae see QL430.5.E6
430.5.S25                   Scissurellidae
430.5.S56                   Siphonariidae
430.5.S65                   Spiraxidae
430.5.S74                   Stiliferidae
430.5.S75                   Stiligeridae
430.5.S78                   Streptaxidae
430.5.S8                   Strombidae
430.5.S83                   Strophocheilidae
Invertebrates
Mollusca
Systematic divisions
Gastropoda (Snails)

By family, A-Z -- Continued

430.5.S87  
Succineidae (Ambersnails)

430.5.T25  
Terebridae

430.5.T3  
Testacellidae

430.5.T35  
Tethyidae

430.5.T45  
Thiaridae

430.5.T63  
Tonniidae

430.5.T65  
Torniidae

430.5.T67  
Tricoliidae

430.5.T7  
Tritoniidae

430.5.T75  
Trochidae

430.5.T78  
Truncatellidae

430.5.T85  
Turbinellidae

430.5.T9  
Turbinidae

430.5.T95  
Turridae

430.5.T96  
Turritellidae (Turretsnails, wormsnails)

430.5.U68  
Urocoptidae

430.5.U7  
Urocyclidae

Vaginulidae see QL430.5.V4

430.5.V34  
Valloniidae

430.5.V36  
Valvatidae

(430.5.V37)  
Vasidae

see QL430.5.T85

430.5.V4  
Veronicellidae

430.5.V65  
Vitronellidae

430.5.V7  
Viviparidae

430.5.V75  
Volutidae

430.5.V77  
Volutomitridae

430.5.X46  
Xenophoridae

430.5.Z6  
Zonitidae

Bivalvia (Lamellibranchia; pelecypoda; clams)

430.6  
General works and orders

430.7.A-Z  
By family, A-Z

430.7.A34  
Amblemidae

430.7.A4  
Anatinidae

430.7.A72  
Arcidae

430.7.A74  
Arcticidae

430.7.A8  
Astartidae

430.7.C2  
Cardiidae

430.7.C24  
Carditidae

430.7.C53  
Chamidae

430.7.C67  
Corbiculidae

430.7.C69  
Corbulidae
Invertebrates
Mollusca

Systematic divisions
Bivalvia (Lamellibranchia; pelecypoda; clams)
By family, A-Z -- Continued

430.7.C8  Crassatellidae
        Cyrenidae see QL430.7.C67
430.7.D55  Dimyidae
430.7.D65  Donacidae
430.7.D8  Dreisseniidae
430.7.G23  Gastrochaenidae
430.7.G55  Glossidae
430.7.G78  Gryphaeidae
430.7.H53  Hiatellidae
430.7.H87  Hyriidae
430.7.L35  Lametilidae
430.7.L4  Ledidae
430.7.L5  Limidae
430.7.L8  Lucinidae
430.7.M3  Mactridae
430.7.M37  Margaritiferidae
430.7.M85  Mycetopodidae
430.7.M9  Myidae
430.7.M95  Mytilidae
430.7.N63  Noetiidae
430.7.N85  Nuculanidae
430.7.N9  Nuculidae
430.7.O9  Ostreidae (Oysters)
430.7.P3  Pectinidae
430.7.P48  Philobryidae
430.7.P5  Pholadidae
430.7.P56  Pinnidae
(430.7.P59)  see QL430.7.S65
430.7.P7  Pristiglomidae
430.7.P75  Psammobiidae
430.7.P77  Pteriidae (Pearl oysters)
430.7.S43  Semelidae
430.7.S5  Siliculidae
430.7.S58  Solemyidae
430.7.S6  Solenidae (Razor clams)
430.7.S65  Sphaeriidae
430.7.S68  Spondylidae
430.7.T3  Tellinidae
430.7.T4  Teredinidae
430.7.T47  Thraciidae
430.7.T55  Tindariidae
Invertebrates
Mollusca
Systematic divisions
Bivalvia (Lamellibranchia; pelecypoda; clams)
   By family, A-Z -- Continued

430.7.T7                  Tridacnidae
430.7.U6                  Unionidae
430.7.V5                  Veneridae
430.8                  Scaphopoda (Tusk shells)
431                  Anatomy and morphology
431.2                  Physiology
431.3                  Reproduction and spawning
431.4                  Behavior
432                  Miscellany and curiosa

Arthropoda
434.A1                  Periodicals, societies, congresses, serial publications
434.A3-Z                  General works, treatises, and textbooks
434.13                  Pictorial works and atlases
434.14                  Popular works
434.15                  Juvenile works
434.2                  Classification
434.3                  Catalogs and collections
434.35                  Evolution. Speciation
434.4                  Study and teaching. Research
434.45                  Poisonous arthropods. Dangerous arthropods

Geographical distribution
   For geographical distribution of systematic divisions, see the division below

434.5                  General works
434.52                  North America (United States and Canada) (Table Q3)
434.53                  Mexico, Central America, and West Indies (Table Q3)
434.54                  South America (Table Q3)
434.55                  Europe (Table Q3)
434.56                  Asia (Table Q3)
434.57                  Africa (Table Q3)
434.58                  Australasia and Indo-Pacific islands (Table Q3)
434.59                  Polar regions
434.6                  Tropics
434.7                  Anatomy and morphology
434.715                  Cytology
434.72                  Physiology
434.8                  Behavior

Crustacea
435.A1                  Periodicals, societies, congresses, serial publications
435.A3-Z                  General works, treatises, and textbooks
436                  Pictorial works and atlases
437                  Popular works
Invertebrates
  Arthropoda
    Crustacea -- Continued

437.2       Juvenile works
438         Classification
438.2       Catalogs and collections
438.5       Evolution, Phylogeny

Geographical distribution
  For geographical distribution of systematic divisions
  see QL444.A+

441         General works
441.1       North America (United States and Canada) (Table Q3)
441.2       Mexico, Central America, and West Indies (Table Q3)
441.3       South America (Table Q3)
441.4       Europe (Table Q3)
441.5       Asia (Table Q3)
441.6       Africa (Table Q3)
441.7       Australia
441.75      New Zealand
441.8       Pacific islands (Table Q3)
441.9       Arctic regions
441.95      Antarctica
441.96      Tropics
  Class here works on species, genera, and families by order
Branchiopoda
  General works
  B8         Anostraca (Fairy shrimps)
  B815       Cladocera (Water fleas)
  B83        Conchostraca (Clam shrimps)
  B834       Notostraca (Tadpole shrimps)
  B9         Branchiura (Fish lice)
  C4         Cephalocarida

Cirripedia
  General works
  C5         Acrothoracica
  C52        Ascothoracica
  C527       Rhizocephala
  C58        Thoracica (Barnacles)

Copepoda
  General works
  C7         Calanoida
  C72        Caligoida
  C722       see QL444.C79

  C73        Cyclopoidea
  C74        Harpacticoida
  C75        Lernaeopodida

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Invertebrates
Arthropoda
Crustacea

Systematic divisions. By subclasses and orders, A-Z

Copepoda -- Continued

444.C756 Monstrilloida
444.C76 Notodelphyoida
444.C78 Poecilostomatoida
444.C79 Siphonostomatoida

Entomostraca see QL435+

Malacostraca

444.M3 General works
444.M315 Amphipoda (Sand hoppers; whale lice)
444.M317 Anaspidacea
444.M32 Bathynellacea
444.M328 Cumacea
444.M33 Decapoda (Shrimps; lobsters; crabs)
444.M338 Euphausiacea
444.M34 Isopoda (Pill bugs; wood lice)
444.M347 Leptostraca
444.M35 Mysidacea (Opossum shrimps)
444.M37 Spelaegriphacea
444.M375 Stomatopoda
444.M378 Stygocaridacea
444.M38 Tanaidacea
444.M384 Thermosbaenacea
444.M9 Mystacocarida

Ostracoda (Seed shrimps)

444.O8 General works
444.O83 Halocyprida
444.O85 Myodocopida
444.O86 Podocopida

445 Anatomy and morphology
445.2 Physiology

447 Pycnogonida (Pantopoda)
447.3 Pentastomida (Linguatulida; tongue worms)
447.5 Tardigrada (Water bears)
447.7 Merostomata (Xiphosura)

Onychophora (Velvet worms)

448 General works

Geographical distribution
For geographical distribution of systematic divisions see QL448.5-.55

448.3 General works

448.32 North America (United States, Canada, and Greenland)
(Table Q3)

448.35 Mexico, Central America, and West Indies (Table Q3)
Invertebrates
Arthropoda
Onychophora (Velvet worms)

Geographical distribution -- Continued

448.37  South America (Table Q3)
448.4  Europe (Table Q3)
448.42  Atlantic islands (Table Q3)
448.43  Asia (Table Q3)
448.44  Africa (Table Q3)
448.45  Indian Ocean islands (Table Q3)
448.46  Australasia (Australia, New Zealand, New Guinea, and neighboring islands) (Table Q3)
448.47  Pacific islands (Table Q3)
448.48  General works
448.483  Arctic regions
448.485  Antarctica
448.49  Tropics

Systematic divisions
  Class here works on species, genera, and families by family; higher taxa by class

Udeonychophora
448.5  General works and orders
448.55.A-Z  By family, A-Z
448.55.P47  Peripatidae
448.55.P48  Peripatopsidae

Myriapoda
449  General works, treatises, and textbooks
Geographical distribution
  For geographical distribution of systematic divisions see QL449.5+

449.3  General works
449.32  North America (United States and Canada) (Table Q3)
449.35  Mexico, Central America, and West Indies (Table Q3)
449.37  South America (Table Q3)
449.4  Europe (Table Q3)
449.42  Asia (Table Q3)
449.44  Africa (Table Q3)
449.46  Australasia and Indo-Pacific islands (Table Q3)
449.48  Polar regions
449.49  Tropics

Systematic divisions
  Class here works on species, genera, and families by family; high taxa by class

Chilopoda (Centipedes)
449.5  General works and orders
449.55.A-Z  By family, A-Z
Invertebrates
Arthropoda
Myriapoda
Systematic divisions
Chilopoda (Centipedes)
By family, A-Z -- Continued

449.55.C4                      Cermatobiidae
449.55.C7                      Craterostigmidae
449.55.C78                     Cryptopidae
449.55.D5                      Dignathodontidae
449.55.E8                      Ethopolyidae
449.55.G4                      Geophilidae
449.55.G66                     Gonibregmatidae
449.55.G68                     Gosibiidae
449.55.H4                      Henicopidae
449.55.H5                      Himantariidae
449.55.L5                      Lithobiidae
449.55.M4                      Mecistocephalidae
449.55.N4                      Neogeophilidae
449.55.O7                      Oryidae
449.55.S25                     Schendylidae
449.55.S3                      Scolopendridae
449.55.S37                     Scutigeridae
449.55.S63                     Sogonidae
449.55.S66                     Soniphilidae
449.55.W3                      Watobiidae

Diplopoda (Millipedes)

449.6                   General works and orders
449.65.A-Z                   By family, A-Z
449.65.A6                      Andrognathidae
449.65.A8                      Atopetholidae
449.65.B4                      Blaniulidae
449.65.C24                     Callipodidae
449.65.C25                     Cambalidae
449.65.C28                     Caseyidae
449.65.C37                     Chelodesmidae
449.65.C4                      Chordeumidae
449.65.C5                      Cleidogonidae
449.65.C6                      Conotylidae
449.65.C72                     Craspedosomidae
449.65.C79                     Cryptodesmidae
449.65.E87                     Eurymorodesmidae
449.65.E878                    Euryuridae
449.65.G4                      Gervaisiidae
449.65.G5                      Glomeridae
449.65.G53                     Glomeridesmidae
449.65.H37                     Harpagophorididae
Invertebrates
Arthropoda
Myriapoda
Systematic divisions
Diplopoda (Millipedes)
By family, A-Z -- Continued

449.65.J8                      Julidae
449.65.L4                      Leioderidae
449.65.L9                      Lysiopetalidae
449.65.N4                      Nearctodesmidae
449.65.O6                      Oniscodesmidae
449.65.O95                     Oxydesmidae
449.65.P18                     Pachybolidae
449.65.P22                     Paeromopidae
449.65.P27                     Paradoxosomatidae
449.65.P273                    Paraiulidae
449.65.P42                     Platydesmidae
449.65.P427                    Platyrrhacidae
449.65.P64                     Polydesmidae
449.65.P648                    Polyxenidae
449.65.P649                    Polyzoniidae
449.65.R4                      Rhinocricidae
449.65.S56                     Siphoniulidae
449.65.S565                    Siphonophoridae
449.65.S64                     Sphaeriodesmidae
449.65.S645                    Sphaerotheridae
449.65.S65                     Spirobolidae
449.65.S655                    Spirostreptidae
        Strongylosomidae see QL449.65.P27
449.65.S88                     Stylodesmidae
449.65.S95                     Synxenidae
449.65.T56                     Tingupidae
449.65.T75                     Trichopolydesmidae
449.65.V34                     Vanhoeffeniidae
449.65.X9                      Xystodesmidae

Pauropoda
449.7                      General works
449.75.A-Z                   By family, A-Z
449.75.B7                    Brachypauropodidae
449.75.E8                    Eurypauropodidae
449.75.P3                    Pauropodidae

Symphyla
449.8                      General works
449.85.A-Z                   By family, A-Z
449.85.G4                    Geophilellidae
449.85.S25                   Scolopendrellidae
449.85.S3                    Scutigerellidae
Invertebrates

Arthropoda

Myriapoda -- Continued

449.9   Anatomy and morphology
449.92  Physiology

Arachnida (Scorpions; spiders; mites; etc.)

451   General works, treatises, and textbooks
452   Popular works
452.2  Juvenile works
452.8  Classification
453   Catalogs and collections

Geographical distribution

For geographical distribution of systematic divisions
see QL458+

453.1  North America (United States and Canada) (Table Q3)
453.2  Mexico, Central America, and West Indies (Table Q3)
453.3  South America (Table Q3)
453.35 Atlantic islands (Table Q3)
453.4  Europe (Table Q3)
453.5  Asia (Table Q3)
453.6  Africa (Table Q3)
        Australasia
        453.68  General works
        453.7  Australia
        453.75 New Zealand
        453.8  Pacific islands (Table Q3)
        453.9  Arctic regions
        453.95 Antarctica
        453.96 Tropics

Systematic divisions

Acari (Acarina). Mites

458   General works
458.15.A-Z  By order, A-Z
458.15.A33  Acariformes
            Notostigmata see QL458.15.O65
458.15.O65  Opilioacariformes
458.15.P37  Parasitiformes
458.2.A-Z  By family, A-Z
458.2.A3  Acaridae
458.2.A44  Alloptidae
458.2.A45  Ameronothridae
458.2.A5  Analgidae
458.2.A58  Anystidae
458.2.A74  Argasidae
458.2.A77  Arrenuridae
458.2.B4  Bdellidae
458.2.B7  Brachychthoniidae
## Invertebrates
### Arthropoda
#### Arachnida (Scorpions; spiders; mites; etc.)

Systematic divisions

- **Acari (Acarina). Mites**
  - **By family, A-Z -- Continued**

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Invertebrates

Arthropoda

Arachnida (Scorpions; spiders; mites; etc.)

Systematic divisions

Acari (Acarina). Mites

By family, A-Z -- Continued

458.2.O74                      Oribatidae
458.2.P3                      Parasitidae
458.2.P35                      Penthaleidae
458.2.P37                      Phytoptidae
458.2.P4                      Phytoseiidae
458.2.P44                      Pionidae
458.2.P6                      Podapolipodidae
458.2.P65                      Pontarachnidae
458.2.P74                      Proctophyllodidae
458.2.P8                      Psoroptidae
458.2.P85                      Pterolichidae
458.2.P87                      Pterygosomatidae
458.2.P9                      Pyemotidae
458.2.P95                      Pyroglyphidae
458.2.R36                      Raphignathidae
458.2.R45                      Rhagidiidae
458.2.R47                      Rhodacaridae
458.2.R66                      Rosensteiniidae
458.2.S25                      Sarcoptidae
458.2.S3                      Scutacaridae
458.2.S7                      Sperchonidae
458.2.S75                      Spinturnicidae
458.2.S8                      Stigmaeidae
458.2.S89                      Syringobiidae
458.2.S9                      Syringophilidae
458.2.T3                      Tarsonemidae
458.2.T36                      Tenuipalpidae
458.2.T4                      Tetranychidae (Spider mites)
458.2.T5                      Thyasidae
458.2.T7                      Trachytidae
458.2.T75                      Trombiculidae
458.2.T76                      Trombidiidae
458.2.U5                      Unionicolidae
458.2.U7                      Uropodidae
458.2.V37                      Varroidae
458.2.X65                      Xolalgaeidae
458.2.Z4                      Zerconidae

Amblypygi (Phrynichida)

458.3                      General works
458.32.A-Z                      By family, A-Z
458.32.C4                      Charonidae
Invertebrates
  Arthropoda
    Arachnida (Scorpions; spiders; mites; etc.)
    Systematic divisions
      Amblypygi (Phrynichida)
        By family, A-Z -- Continued
        Phrynichidae
        Phrynidae
        Tarantulidae

Araneae (Araneida). Spiders
  General works
  Geographical distribution
  North America (United States, Canada, and Greenland) (Table Q3)
  Mexico, Central America, and West Indies (Table Q3)
  South America (Table Q3)
  Atlantic islands (Table Q3)
  Europe (Table Q3)
  Asia (Table Q3)
  Africa (Table Q3)
  Indian Ocean islands (Table Q3)
  Australasia
    General works
    Australia
    New Zealand
    Pacific islands (Table Q3)
  Polar regions
    General works
    Arctic regions
    Antarctica
  Tropics
  By family, A-Z
  Acanthoctenidae
  Actinopodidae
  Agelenidae
  Amaurobiidae
    Amaurobiodidae see QL458.42.A57
  Ammoxenidae
  Anapidae
  Antrodiaetidae
  Anyphaenidae
  Araneidae (Orb weavers)
  Archaeidae
    Argiopidae see QL458.42.A7
    Attidae see QL458.42.S24
  Atypidae
Invertebrates
Arthropoda
  Arachnida (Scorpions; spiders; mites; etc.)
  Systematic divisions
  Araneae (Araneida). Spiders
  By family, A-Z -- Continued
  Aviculariidae see QL458.42.T5
  458.42.B3   Barychelidae
  458.42.C3   Caponiidae
  458.42.C4   Clubionidae
  458.42.C67  Corinnidae
  458.42.C8   Ctenidae
  458.42.C83  Ctenizidae
  458.42.C93  Cyatholipidae
  Deinopidae see QL458.42.D55
  458.42.D44  Desidae
  458.42.D5   Dictynidae
  458.42.D53  Diguetidae
  458.42.D55  Dinopidae. Deinopidae
  458.42.D56  Dipluridae
  458.42.D9   Dysderidae
  458.42.E7   Eresidae (Velvet spiders)
  Eusparassidae see QL458.42.H48
  458.42.F5   Filistatidae
  458.42.G5   Gnaphosidae
  458.42.G7   Gradungulidae
  458.42.H3   Hadrotarsidae
  458.42.H33  Hahniidae
  458.42.H47  Hersiliidae
  458.42.H48  Heteropodidae
  458.42.H6   Homalonychidae
  458.42.H9   Hypochilidae
  458.42.L3   Lamponidae
  458.42.L4   Leptonetidae
  458.42.L55  Linyphiidae
  458.42.L555 Liocranidae
  458.42.L56  Liphistiidae
  458.42.L6   Loxoscelidae
  458.42.L9   Lycosidae (Wolf spiders)
  458.42.M4   Mecicobothriidae
  458.42.M5   Microstigmatidae
  458.42.M53  Migidae
  458.42.M54  Mimetidae
  458.42.M97  Mysmenidae
  458.42.N37  Nemesiidae
  458.42.N38  Nephilidae
  458.42.N4   Nesticidae

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Invertebrates
Arthropoda
  Arachnida (Scorpions; spiders; mites; etc.)
    Systematic divisions
      Araneae (Araneida). Spiders
        By family, A-Z -- Continued

458.42.O3                      Ochyroceratidae
458.42.O4                      Oecobiidae
458.42.O6                      Oonopidae
458.42.O9                      Oxyopidae
458.42.P34                      Palpimanidae
458.42.P37                      Paratropidae
458.42.P39                      Philodromidae
458.42.P4                      Pholcidae
458.42.P47                      Pimoidae
458.42.P5                      Pisonidae
458.42.P6                      Platoridae
458.42.P64                      Plectreuridae
458.42.P7                      Prodidomidae
458.42.P8                      Psechridae
458.42.P9                      Pycnothelidae
458.42.S24                      Salticidae (Jumping spiders)
458.42.S3                      Scytodidae
458.42.S44                      Selenopidae
458.42.S45                      Senoculidae
458.42.S5                      Scleriidae
        Sparassidae see QL458.42.H48
458.42.S7                      Stenochilida
458.42.S73                     Stiphidiidae
458.42.S9                      Symphytognathidae
458.42.T44                     Telmidae
458.42.T45                     Tengellidae
458.42.T46                     Tetrabelmmidae
458.42.T48                     Tetragnathidae
458.42.T5                      Theraphosidae (Tarantulas)
458.42.T54                     Theridiidae (Cobweb weavers)
458.42.T55                     Theridiosomatidae
458.42.T56                     Thomisidae
458.42.T6                      Toxopidae
458.42.U4                      Uloboroidae
458.42.U7                      Urocteidae
458.42.Z63                     Zodariidae
458.42.Z67                     Zoropsidae
        Opiliones (Opiliona; Phalangiida)

458.5                      General works
458.52.A-Z                    By family, A-Z
458.52.A8                    Assamiidae
Invertebrates
Arthropoda
Arachnida (Scorpions; spiders; mites; etc.)
Systematic divisions
Opiliones (Opiliona; Phalangiida)
By family, A-Z -- Continued

458.52.C6                      Cosmetidae
458.52.G6                      Gonyleptidae
458.52.I7                      Ischyropsalidae
458.52.L44                      Leiobunidae
458.52.N4                      Nemastomatidae
458.52.O5                      Oncopodidae
458.52.P45                      Phalangiidae
458.52.P46                      Phalangodidae
458.52.S5                      Sironidae
458.52.S9                      Synthetonychidae
458.52.T75                      Triaenonychidae
458.52.T76                      Trogulidae

Palpigradi (Palpigradida)

458.55                   General works
458.57.A-Z                   By family, A-Z
458.57.E9                      Eukoeneniidae

Pseudoscorpiones (Book scorpions; Chelonethida; Pseudoscorpionida)

458.6                   General works
458.62.A-Z                   By family, A-Z
458.62.C37                      Chernetidae
458.62.C4                      Chthoniidae
458.62.G3                      Garypidae
458.62.H9                      Hyidae
458.62.I3                      Ideoroncidae
458.62.M4                      Menthidae
458.62.N4                      Neobisiidae
458.62.O4                      Olpiidae
458.62.S9                      Syarinidae
458.62.T7                      Tridenchthoniidae

Ricinulei (Ricinuleida; Podogonata; Rhinogastra)

458.65                   General works
458.67.A-Z                   By family, A-Z
458.67.R5                      Ricinoididae

Schizomida

458.69                   General works
458.692.A-Z                   By family, A-Z
458.692.H82                     Hubbardiidae
458.692.P75                     Protoschizomidae

Schizomidae see QL458.692.H82

Scorpiones (Scorpionida)
Invertebrates
Arthropoda
Arachnida (Scorpions; spiders; mites; etc.)

Systematic divisions
Scorpiones (Scorpionida) -- Continued

458.7
General works
458.72.A-Z
By family, A-Z
458.72.B6
Bothriuridae
458.72.B8
Buthidae
458.72.C27
Caraboctonidae
458.72.C4
Chactidae
458.72.C45
Chaerilidae
458.72.D5
Diplocentridae
458.72.E88
Euscorpiidae
458.72.H45
Hemiscorpiidae
458.72.H48
Heteroscorpionidae
458.72.H67
Hormuridae
(458.72.I75)
Ischnuridae

see QL458.72.H45

458.72.I95
Iuridae
458.72.M52
Microcharmidae
458.72.P75
Pseudochactidae
458.72.S3
Scorpionidae
458.72.S85
Superstitioniidae
458.72.T75
Troglotaosicidae
(458.72.U75)
Urodacidae

see QL458.72.S3

458.72.V4
Vaejovidae

Solpugida (Solifugae; Sun spiders; Wind scorpions)

458.8
General works
458.82.A-Z
By family, A-Z
458.82.A4
Ammotrechidae
458.82.C4
Ceromidae
458.82.D3
Daesiidae
458.82.E7
Eremobatidae
458.82.G3
Galeodidae
458.82.H4
Hexisopodidae
458.82.K3
Karschiidae
458.82.M4
Melanoblossiidae
458.82.R4
Ragpodidae
458.82.S6
Solpugidae

Uropygi (Thelyphonida; Whip scorpions)

458.85
General works
458.87.A-Z
By family, A-Z
(458.87.S3)
Schizomidae

see QL458.692.H82

458.87.T4
Thelyphonidae
Invertebrates
   Arthropoda
      Arachnida (Scorpions; spiders; mites; etc.) -- Continued
         459              Anatomy and morphology
         459.2             Physiology
     Insects
         Cf. SB818+ Economic entomology
         461              Periodicals, societies, congresses, serial publications
         462              Collected works (nonserial)
         462.3             Dictionaries and encyclopedias
         462.4             Terminology, notation, abbreviations
         462.5             History
         463              General works, treatises, and textbooks
         464              Field and laboratory manuals
         465              Collection and preservation
         466              Pictorial works and atlases
         467              Popular works
         467.2             Juvenile works
         467.8             Rare and endangered species
         467.9             Extinct insects
         468              Classification. Nomenclature
         468.2             Catalogs and collections
         468.4             Entomology as a profession. Vocational guidance
         468.5             Study and teaching. Research
         468.7             Evolution. Phylogeny. Speciation
         468.8             Poisonous insects. Dangerous insects
     Geographical distribution
         For geographical distribution of systematic divisions, see QL503+
         469              General works
            Physiographic divisions
               Aquatic
                  472              General works
               Marine
                  472.3              General works
               Urban
                  472.7              General works
            Topographic divisions
               North America
                  473              General works
               United States
                  474              General works
               Canada
                  475.A-Z              By region or state, A-Z
               Latin America
                  476              General works
               By region, province, or territory, A-Z
                  476.3.A-Z
               Mexico
                  477              General works

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Invertebrates
   Arthropoda
       Insects
           Geographical distribution
               Topographic divisions
                   Latin America -- Continued
                       Central America (Table Q3)
                       West Indies (Table Q3)
                       South America (Table Q3)
               Atlantic islands
                   General works
                   By individual island or group of islands, A-Z
               Europe (Table Q3)
               Asia (Table Q3)
               Africa (Table Q3)
               Indian Ocean islands
                   General works
                   By individual island or group of islands, A-Z
               Australia
               New Zealand
               Pacific islands (Table Q3)
               Arctic regions
               Antarctica
               Tropics
               Immunology
               Genetics
               Molecular entomology
               Anatomy and morphology
               Metamorphosis
               Cytology
               Physiology
                   General works
                   Development
               Behavior. Social life. Instinct
               Parasitism
                   Including parasitic insects and parasitoids
               Population dynamics
               Migration
               Ecology
               Sound and sound production
               Flight
               Miscellany and curiosa
               Apterygota
                   General works, treatises, and textbooks
                   Geographical distribution
                       For geographical distribution of systematic divisions
                       see QL503+
Invertebrates
   Arthropoda
      Insects
         Apterygota
            Geographical distribution -- Continued
            502
               General works
            502.1
               North America (United States and Canada) (Table Q3)
            502.2
               Mexico, Central America, and West Indies (Table Q3)
            502.3
               South America (Table Q3)
            502.4
               Europe (Table Q3)
            502.5
               Asia (Table Q3)
            502.6
               Africa (Table Q3)
            502.7
               Australia
            502.75
               New Zealand
            502.8
               Pacific islands (Table Q3)
            502.9
               Arctic regions
            502.95
               Antarctica
            502.96
               Tropics
            Systematic divisions
               Collembola
                  General works
               503.A1
                  By family, A-Z
               503.A3-Z
                  Actaletidae
               503.D5
                  Dicyrtomidae
               503.E5
                  Entomobryidae
               503.H9
                  Hypogastruridae
               503.I8
                  Isotomidae
               503.N4
                  Neelidae
               503.O5
                  Oncopoduridae
               503.O56
                  Onychiuridae
               503.P6
                  Poduridae
               503.S6
                  Sminthuridae
               503.T6
                  Tomoceridae
               Entotrophi (Diplura)
                  General works
               503.4.A1
                  By family, A-Z
               503.4.A3-Z
                  Campodeidae
               503.4.C3
                  Japygidae
               503.4.P7
                  Projapygidae
               Protura
                  General works
               503.6.A1
                  By family, A-Z
               503.6.A3-Z
                  Acerentomidae
               503.6.E6
                  Eosentomidae
               503.6.P7
                  Protentomidae
               Archaeognatha
Invertebrates
   Arthropoda
   Insects
   Apterygota

Systematic divisions
   Archaeognatha -- Continued

   503.7.A1                  General works
   503.7.A3-Z                By family, A-Z
   503.7.M32                 Machilidae
   503.7.M44                 Meinertellidae

   Thysanura

   503.8.A1                  General works
   503.8.A3-Z                By family, A-Z
   503.8.L4                  Lepismatidae
   (503.8.M3)                Machilidae
       see QL503.7.M32
   (503.8.M4)                Meinertellidae
       see QL503.7.M44
   503.8.N5                  Nicoletiidae

504                  Anatomy and morphology
504.2                 Physiology

Ephemeroptera (Plectoptera; mayflies)

505                  General works, treatises, and textbooks

Geographical distribution
   For geographical distribution of systematic divisions
   see QL505.3.A+

505.1                  General works
505.2                  North America (United States and Canada) (Table Q3)
505.22                 Mexico, Central America, and West Indies (Table Q3)
505.23                 South America (Table Q3)
505.24                 Europe (Table Q3)
505.25                 Asia (Table Q3)
505.26                 Africa (Table Q3)
505.27                 Australasia and Indo-Pacific islands (Table Q3)
505.28                 Polar regions
505.29                 Tropics
505.3.A-Z               Systematic divisions. By family, A-Z
   Ametropodidae see QL505.3.S5
   505.3.B33               Baetidae
   505.3.B38               Baetiscidae
   505.3.C3                Caenidae
   505.3.E64               Ephemerrillidae
   505.3.E65               Ephemeridae
   505.3.H4                Heptageniidae
   505.3.L4                Leptophlebiidae
   505.3.O4                Oligoneuridae

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Invertebrates
  Arthropoda
    Insects
      Ephemeroptera (Plecoptera; mayflies)

Systematic divisions. By family, A-Z -- Continued

505.3.P3  Palingeniidae
505.3.P64  Polymitarcidae
505.3.P68  Potamanthidae
505.3.P76  Prosopistomatidae
505.3.S5  Siphlonuridae
505.4  Anatomy and morphology
505.42  Physiology

Blattaria (Cockroaches)

505.5  General works

Geographical distribution
  For geographical distribution of systematic divisions
  see QL505.7.A+

505.51  General works
505.6  North America (United States and Canada) (Table Q3)
505.62  Mexico, Central America, and West Indies (Table Q3)
505.63  South America (Table Q3)
505.64  Europe (Table Q3)
505.65  Asia (Table Q3)
505.66  Africa (Table Q3)
505.67  Australasia and Indo-Pacific islands (Table Q3)
505.68  Polar regions
505.69  Tropics
505.7.A73  Archiblattidae
505.7.A74  Areolariidae
505.7.A87  Attaphilidae
505.7.A88  Atticolidae
505.7.B4  Blaberidae
505.7.B48  Blattellidae
505.7.B485  Blattidae
505.7.C4  Chorisoneuridae
505.7.C6  Corydiidae
505.7.C7  Cryptocercidae
505.7.D5  Diplopteridae
505.7.E3  Ectobiidae
505.7.E7  Epilampridae
505.7.E9  Euthyrhrhapsidae
505.7.H6  Homoeogamiidae
505.7.L3  Latindiidae
505.7.N62  Nothoblattidae
505.7.N68  Nocticoliidae
Invertebrates
   Arthropoda
   Insects
      Blattaria (Cockroaches)
       Systematic divisions. By family, A-Z -- Continued
       505.7.N9                   Nyctiboridae
       505.7.O8                   Ouloterygidae
       505.7.O9                   Oxyhaloidae
       505.7.P33                   Panchloridae
       505.7.P34                   Panesthiidae
       505.7.P4                   Perisphaeriidae
       505.7.P45                   Phyllodromiidae
       505.7.P6                   Polyphagidae
       505.8                   Anatomy and morphology
       505.82                   Physiology
      Mantodea (Mantids)
       505.83                   General works, treatises, and textbooks
          Geographical distribution
             For geographical distribution of systematic divisions
             see QL505.9.A+
       505.84                   General works
       505.85                   North America (United States and Canada) (Table Q3)
       505.855                   Mexico, Central America, and West Indies (Table Q3)
       505.86                   South America (Table Q3)
       505.865                   Europe (Table Q3)
       505.87                   Asia (Table Q3)
       505.875                   Africa (Table Q3)
       505.88                   Australasian and Indo-Pacific Islands (Table Q3)
       505.885                   Polar regions
       505.89                   Tropics
       505.9.H94                   Hymenopodidae
       505.9.M35                   Mantidae
       505.95                   Anatomy
       505.96                   Physiology
      Orthoptera (Grasshoppers; locusts; etc.)
       506                   General works, treatises, and textbooks
          Geographical distribution
             For geographical distribution of systematic divisions
             see QL508.A+
       507                   General works
       507.1                   North America (United States and Canada) (Table Q3)
       507.2                   Mexico, Central America, and West Indies (Table Q3)
       507.3                   South America (Table Q3)
       507.4                   Europe (Table Q3)
Invertebrates
  Arthropoda
    Insects
      Orthoptera (Grasshoppers; locusts; etc.)
        Geographical distribution -- Continued
        507.5  Asia (Table Q3)
        507.6  Africa (Table Q3)
        507.7  Australia
        507.75  New Zealand
        507.8  Pacific islands (Table Q3)
        507.9  Arctic regions
        507.95  Antarctica
        507.96  Tropics
          508.A2  Acrididae (Grasshoppers)
          508.A56  Anostostomatidae
          508.Bacillidae see QL509.7.P58
          508.Bacteriidae see QL509.7.P53
          508.Bacunculidae see QL509.7.P58
          508.Blattidae see QL505.5+
          508.C9  Cylindrachetidae
          508.E5  Eneopteridae
          508.G7  Gryllacrididae
          508.G8  Gryllidae (Crickets)
          (508.G86)  Grylloblattidae
            see QL509.3
          508.G87  Gryllotalpidae (Mole crickets)
          508.L45  Lentulidae
          Locustidae see QL508.A2
          (508.M4)  Mantidae
            see QL505.9.M35
          508.M6  Mogoplistidae
          508.M9  Myrmecophiliidae
          508.O4  Oecanthidae
          508.P34  Pamphagidae
          Phasmatidae see QL509.7.P53
          508.P53  Phasmodiidae
          Phyllidae see QL509.7.P58
          508.P6  Pneumoridae
          508.P7  Proscopiidae
          508.P97  Pyrgomorphidae
          508.R45  Rhaphidophoridae
          508.R65  Romaleidae (Lubber grasshoppers)
          508.S7  Stenopelmatidae (Jerusalem crickets)
          508.T38  Tettigidae (Pigmy grasshoppers)
          508.T4  Tettigoniidae (Katydids; Longhorn grasshoppers)
          508.T45  Thericleidae
Invertebrates
Arthropoda
Insects
Orthoptera (Grasshoppers; locusts; etc.)
Systematic divisions. By family, A-Z -- Continued
Timematidae see QL509.7.P58
508.T73
Tridactylidae (Pigmy mole crickets)
508.T74
Trigonidiidae
509
Anatomy and morphology
509.2
Physiology
509.3
Grylloblattodea
  Includes one family, Grylloblattidae
Phasmatoptera (Phasmida; Stick insects)
509.5
General works
Geographical distribution
  For geographical distribution of systematic divisions
  see QL509.7.A+
509.55
General works
509.6
North America (United States and Canada) (Table Q3)
509.62
Mexico, Central America, and West Indies (Table Q3)
509.63
South America (Table Q3)
509.64
Europe (Table Q3)
509.65
Asia (Table Q3)
509.66
Africa (Table Q3)
509.67
Australasia and Indo-Pacific islands (Table Q3)
509.68
Polar regions
509.69
Tropics
509.7.A-Z
Systematic divisions, A-Z
509.7.P53
Phasmatidae
509.7.P58
Phylliidae
Dermaptera (Earwigs)
510
General works, treatises, and textbooks
Geographical distribution
  For geographical distribution of systematic divisions
  see QL510.3.A+
510.15
General works
510.2
North America (United States and Canada) (Table Q3)
510.22
Mexico, Central America, and West Indies (Table Q3)
510.23
South America (Table Q3)
510.24
Europe (Table Q3)
510.25
Asia (Table Q3)
510.26
Africa (Table Q3)
510.27
Australasia and Indo-Pacific islands (Table Q3)
510.28
Polar regions
510.29
Tropics
Invertebrates
  Arthropoda
  Insects

Dermaptera (Earwigs) -- Continued

510.3.A4   Allostethidae
510.3.A5   Anataelliidae
510.3.A52  Ancistrogastridae
510.3.A54  Anechuridae
510.3.A6   Apachyidae
510.3.A7   Arixeniidae
510.3.B7   Brachylabidae
510.3.C37  Carcinophoridae
510.3.C43  Cheliduridae
510.3.C48  Chelisochidae
510.3.D5   Diaperasticidae
510.3.D56  Diplatyidae
510.3.E3   Echinosomatidae
510.3.E8   Esphalmenidae
510.3.E9   Eudomiidae
510.3.F6   Forficulidae
510.3.H4   Hemimeridae
510.3.K3   Karschiellidae
510.3.L33  Labiduridae
510.3.L35  Labiidae
510.3.N46  Neolobophoridae
510.3.N48  Nesogastridae
510.3.O6   Opisthocosmiidae
510.3.P3   Parisolabidae
510.3.P4   Pericomidae
510.3.P5   Platylabidae
510.3.P8   Psalididae
510.3.P94  Pygidicranidae
510.3.P97  Pyragridae
510.3.S6   Sparattidae
510.3.S66  Spongiphoridae
510.3.S8   Strongylopsalididae
510.3.V3   Vandicidae
510.4   Anatomy and morphology
510.42   Physiology

Neuroptera

511   General works, treatises, and textbooks

Geographical distribution
  For geographical distribution of systematic divisions
  see QL513.A+
Invertebrates
    Arthropoda
    Insects
    Neuroptera

Geographical distribution -- Continued

512.1  North America (United States and Canada) (Table Q3)
512.2  Mexico, Central America, and West Indies (Table Q3)
512.3  South America (Table Q3)
512.4  Europe (Table Q3)
512.5  Asia (Table Q3)
512.6  Africa (Table Q3)
512.7  Australia
512.75  New Zealand
512.8  Pacific islands (Table Q3)
512.9  Arctic regions
512.95  Antarctica
512.96  Tropics
513.A6  Apochrysidae
513.A7  Ascalaphidae (Owlflies)
513.B4  Berothidae (Beaded lacewings)
513.C5  Chrysopidae (Lacewings)
513.C65  Coniopterygidae (Dusty-wings)
      (513.C7)  Corydalidae (Dobsonflies)
            see QL514.7.C67
513.D5  Dilaridae (Pleasing lacewings)
      Embiidae see QL539+
      Ephemeroptera see QL505+
513.H5  Hemerobiidae (Brown lacewings)
513.I5  Inocelliidae
      Isoptera see QL529+
513.I8  Ithonidae
513.M3  Mantispidae (Mantidflies)
513.M86  Myiodactylidae
513.M9  Myrmeleontidae (Antlions)
513.N4  Nemopteridae
513.N9  Nymphidae
      Odonata see QL520+
513.O8  Osmylidae
      Planipennia see QL511+
      Plecoptera see QL530+
513.P6  Polystoechotidae (Giant lacewings)
      Psocidae see QL515+
513.P8  Psychopsidae
      (513.R3)  Raphidiidae (Snakeflies)
            see QL514.9.R35

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Invertebrates  
Arthropoda  
Insects  
Neuroptera  

Systematic divisions. By family, A-Z -- Continued

(513.S6)                    Sialidae (Alderflies)
                                    see QL514.7.S52
513.S65                   Sisyridae (Spongillaflies)
513.S8                    Stilbopterygidae
513.S9                    Sympherobiidae
                                    Termitidae see QL529+
513.T7                   Trichomatidae

514  
Anatomy and morphology

514.2  
Physiology

Megaloptera

514.4  
General works, treatises, and textbooks

Geographical distribution
                                    For geographical distribution of systematic divisions
                                    see QL514.7.A+

514.5  
General works

514.6  
North America (United States and Canada) (Table Q3)

514.62  
Mexico, Central America, and West Indies (Table Q3)

514.63  
South America (Table Q3)

514.64  
Europe (Table Q3)

514.65  
Asia (Table Q3)

514.66  
Africa (Table Q3)

514.67  
Australasia and Indo-Pacific islands (Table Q3)

514.68  
Polar regions

514.69  
Tropics

514.7.A-Z  
Systematic divisions. By family, A-Z

514.7.C67  
Corydalidae (Dobsonflies)

514.7.S52  
Sialidae (Alderflies)

514.8  
Anatomy and morphology

514.82  
Physiology

Raphidioptera

514.86  
General works, treatises, and textbooks

Geographical distribution
                                    For geographical distribution of systematic divisions
                                    see QL514.9.A+

514.88  
General works

514.8815  
North America (United States and Canada) (Table Q3)

514.882  
Mexico, Central America, and West Indies (Table Q3)

514.883  
South America (Table Q3)

514.884  
Europe (Table Q3)

514.885  
Asia (Table Q3)

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  Arthropoda
    Insects
      Raphidioptera
        Geographical distribution -- Continued
          514.886 Africa (Table Q3)
          514.887 Australasia and Indo-Pacific islands (Table Q3)
          514.888 Polar regions
          514.889 Tropics
          514.9.R35 Raphidiidae (Snakeflies)
          514.95 Anatomy and morphology
          514.96 Physiology

Psocoptera (Corrodentia)

515 General works
  515.2.P4 Peripsocidae
  515.2.P73 Pseudocaecillidae
  515.5 Zoraptera

Trichoptera (Caddisflies)

516 General works, treatises, and textbooks
  Geographical distribution
    For geographical distribution of systematic divisions
    see QL518.A+
  517 General works
    517.1 North America (United States and Canada) (Table Q3)
    517.2 Mexico, Central America, and West Indies (Table Q3)
    517.3 South America (Table Q3)
    517.4 Europe (Table Q3)
    517.5 Asia (Table Q3)
    517.6 Africa (Table Q3)
    517.7 Australia
    517.75 New Zealand
    517.8 Pacific islands (Table Q3)
    517.9 Arctic regions
    517.95 Antarctica
    517.96 Tropics
    518.A55 Anomalopsychidae
    518.B4 Beraeidae
    518.B7 Brachycentridae
    518.C3 Calamoceratidae
    518.G6 Goeridae
    518.H4 Helicopsychidae
    518.H94 Hydropsychidae
    518.H95 Hydroptilidae
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Arthropoda
Insects
Trichoptera (Caddisflies)
Systematic divisions. By family, A-Z -- Continued

518.L48
Leptoceridae
518.L5
Limnephilidae
518.M6
Molannidae
518.O4
Odontoceridae
518.P45
Philopotamidae
518.P47
Phryganeidae
518.P6
Polycentropodidae
518.P8
Psychomyiidae
518.R4
Rhyacophilidae
518.S4
Sericostomatidae
518.X5
Xiphocentronidae
519
Anatomy and morphology
519.2
Physiology
Odonata (Dragonflies, etc.)
520
General works, treatises, and textbooks
Geographical distribution
For geographical distribution of systematic divisions
see QL520.3.A+
520.15
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520.2
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520.22
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520.27
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520.28
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520.29
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520.3.A-Z
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520.3.A4
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520.3.A5
Agrionidae
520.3.A6
Amphipterygidae
520.3.C3
Calopterygidae
520.3.C4
Chlorocyphidae
520.3.C64
Coenagrionidae (Narrow-winged damselflies)
520.3.C67
Cordulegastridae (Biddies)
520.3.C68
Corduliidae (Green-eyed skimmers)
520.3.E6
Epallagidae
520.3.E65
Epiophlebiidae
520.3.G6
Gomphidae (Clubtails)
520.3.H44
Helicorchantidae
Invertebrates
  Arthropoda
    Insects
      Odonata (Dragonflies, etc.)
  Systematic divisions. By family, A-Z -- Continued

520.3.H45                   Hemiphlebiidae
520.3.L45                   Lestidae (Spread-winged damselflies)
520.3.L46                   Lestoideidae
520.3.L6                   Libellulidae (Skimmers)
520.3.M4                   Megapodagrionidae
520.3.P4                   Petaluridae (Graybacks)
520.3.P53                   Platycnemididae
520.3.P58                   Platystictidae
520.3.P6                   Polythoridae
520.3.P7                   Protonuridae
520.3.P8                   Pseudostigmatidae
520.3.S9                   Synlestidae
520.4                   Anatomy and morphology
520.42                   Physiology
  Hemiptera (Heteroptera; bugs)
521                   General works, treatises, and textbooks
  Geographical distribution
    For geographical distribution of systematic divisions
    see QL523.A+
522                   General works
522.1                   North America (United States and Canada) (Table Q3)
522.2                   Mexico, Central America, and West Indies (Table Q3)
522.3                   South America (Table Q3)
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522.5                   Asia (Table Q3)
522.6                   Africa (Table Q3)
522.7                   Australia
522.75                   New Zealand
522.8                   Pacific islands (Table Q3)
522.9                   Arctic regions
522.95                   Antarctica
522.96                   Tropics
523.A14                   Acanthosomatidae
523.A35                   Aepophilidae
523.A4                   Alydidae
523.A5                   Anthocoridae (Flowerbugs)
523.A7                   Aradidae (Flatbugs)
523.B4                   Belostomatidae (Giant waterbugs)
523.B45                   Berytidae
    Capsidae see QL523.M5
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Arthropoda
Insects
Hemiptera (Heteroptera; bugs)
Systematic divisions. By family, A-Z -- Continued

523.C6  Cimicidae (Bedbugs, etc.)
523.C64  Colobothristidae
523.C67  Coreidae
523.C7  Corimelaenidae
523.C75  Corixidae (Water boatmen)
523.C9  Cydnidae (Burrrower bugs)
523.D5  Dipsocoridae
523.D74  Drepanosiphidae
523.D9  Dysodiidae
523.E65  Enicocephalidae
523.G4  Gerridae (Water striders)
523.H4  Hebridae
523.H44  Helotrepidae
Henicocephalidae see QL523.E65
Heteroptera see QL521+
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523.H93  Hydrometridae
523.H96  Hysteroccephalidae
523.I83  Isodermidae
523.I85  Isometopidae
523.J6  Joppeicidae
523.L45  Leotichidae
523.L46  Leptopodidae
523.L9  Lygaeidae
523.M3  Macroveliidae
523.M4  Mesoveliidae
523.M47  Microphysidae
523.M5  Miridae (Plantbugs)
523.N3  Nabidae (Damsel bugs)
523.N4  Naucoridae (Creeping waterbugs)
523.N46  Neididae
523.N5  Nipidae (Water scorpions)
523.N53  Nethridae
523.N6  Notonectidae (Back swimmers)
523.O3  Ochteridae
523.P5  Pentatomidae (Stinkbugs)
523.P53  Phymatidae (Ambushbugs)
523.P55  Piesmidae
523.P57  Plataspidae
523.P576  Ploiairiidae
523.P62  Podopidae
523.P64  Polyctenidae
Invertebrates
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      Insects
         Hemiptera (Heteroptera; bugs)
            Systematic divisions. By family, A-Z -- Continued

523.P9   Pyrrhocoridae
523.R4   Reduviidae (Assassin bugs)
523.R5   Rhopalidae
523.S25  Saldidae (Shorebugs)
523.S3   Schizopteridae
523.S4   Scutelleridae
523.T3   Tahitocoridae
523.T4   Termatophylidae
523.T43  Termitaphididae
523.T48  Thaumastotheriidae
523.T5   Tingidae (Lacebugs)
523.V45  Veliidae
523.V46  Velocipedidae
524     Anatomy and morphology
524.2    Physiology

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525     General works, treatises, and textbooks
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            For geographical distribution of systematic divisions
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526.5   Asia (Table Q3)
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526.7   Australia
526.75  New Zealand
526.8   Pacific islands (Table Q3)
526.9   Arctic regions
526.95  Antarctica
526.96  Tropics
527.A2   Acausaloniidae
527.A25  Achilidae
527.A259 Achilixiidae
527.A3   Adelgidae
527.A4   Aethaloniidae
527.A44  Agallidae
         Aleurodidae see QL527.A5
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Arthropoda
Insects
Homoptera (Aphids; cicadas, etc.)

Systematic divisions. By family, A-Z -- Continued

527.A5
Aleyrodidae (Whiteflies)

527.A64
Aphididae (Aphids or plant lice)

527.A647
Aphrophoridae

527.A65
Apiomorphidae
Areopodidae see QL527.D44

527.A8
Asterolecaniidae (Pit scales)

527.B9
Bythoscopidae

527.C35
Callaphididae

527.C4
Cercopidae (Spittlebugs)

527.C43
Cerococcidae

527.C49
Chermidae see QL527.P88

527.C5
Cicadidae (Cicadas)

527.C55
Cixiidae

527.C58
Clastopteridae

527.C6
Coccidae (Soft scales)

527.C62
Coelostomidiidae

527.C65
Conchaspidae

527.C9
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527.D3
Dactylopiidae (Cochineal insects)

527.D44
Delphacidae

527.D47
Derbidae

527.D5
Diaspididae (Armored scales)

527.D53
Dictyopharidae

527.E73
Eriococcidae

527.E78
Eriosomatidae

527.E9
Euacanthidae

527.E97
Eurybrachidae

527.F4
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527.F9
Fulgoridae

527.I8
Gypsonidae see QL527.C49

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Jassidae see QL527.C49

527.K4
Kermesidae

527.K44
Kerridae (Lac scales)

527.K5
Kinnaridae

527.K6
Koebeliidae

Lacciferidae see QL527.K44

(527.L4)
Lecaniidae

see QL527.C6

527.L44
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527.L6
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Homoptera (Aphids; cicadas, etc.)
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527.M3  Machaerotidae
527.M32  Macropsidae
527.M37  Margarodidae
527.M4  Meenoplidae
527.M45  Membracidae (Treehoppers)
          Monophlebidae see QL527.M37
527.N5  Nirvanidae
527.N6  Nogodinidae
527.O7  Ortheziidae (Ensign scales)
527.P3  Paropiidae
527.P44  Peloridiidae
527.P45  Penthimiidae
527.P53  Phenacoleachiidae
527.P56  Phylloxeridae
527.P6  Pleidae
527.P83  Pseudococcidae (Mealybugs)
527.P88  Psyllidae (Jumping plant lice)
527.P93  Putoidae
527.P96  Pythamidae
527.R5  Ricianiidae
527.S5  Signoretiidae
527.S8  Stenocotidae
          Tachardiidae see QL527.K44
          Tettigellidae see QL527.C49
527.T43  Tettigometridae
527.T5  Thaumastocopidae
527.T6  Tomaspididae
527.T7  Tropiduchidae
527.U4  Ulopidae
528  Anatomy and morphology
528.2  Physiology

Isoptera (Termites)

529  General works, treatises, and textbooks
Geographical distribution
          For geographical distribution of systematic divisions
          see QL529.3.A+
529.15  General works
529.2  North America (United States and Canada) (Table Q3)
529.22  Mexico, Central America, and West Indies (Table Q3)
529.23  South America (Table Q3)
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529.28
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529.3.K35
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529.3.M3
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529.3.R4
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529.3.S47
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529.3.T4
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529.3.T5
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529.4
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529.42
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530
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For geographical distribution of systematic divisions
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Australasia and Indo-Pacific islands (Table Q3)
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530.29
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530.3.A-Z
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530.3.C3
Capniidae
530.3.C45
Chloroperlidae
530.3.E9
Eustheniidae
530.3.L47
Leptoperlidae
530.3.L49
Leuctridae ( Rolled-wing stoneflies )
530.3.N4
Nemouridae
530.3.P44
Peltoperlidae
530.3.P47
Perlidae
530.3.P48
Perlodidae
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Invertebrates
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        530.3.P8                   Pteronarcyidae
        530.3.T3                   Taeniopterygidae
        530.4                Anatomy and morphology
        530.42                Physiology
      Diptera (Flies)
        531                General works, treatises, and textbooks
        532                Pictorial works and atlases
        533                Popular works
        533.2                Juvenile works
        534                Classification
        534.2                Catalogs and collections
        Geographical distribution
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        535.2                Mexico, Central America, and West Indies (Table Q3)
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        535.5                Asia (Table Q3)
        535.6                Africa (Table Q3)
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        536                Culicidae (Mosquitoes)
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        537.A4                Agromyzidae (Leafminerflies)
        537.A45               Allactoneuridae
        537.A5                Anthomyiidae
        537.A53               Anthomyzidae
        537.A6                Apioceridae
        537.A85               Asilidae (Robberflies)
        537.A88               Astiidae
        537.A9                Aulacigastridae
        537.B5                Bibionidae (Marchflies)
        537.B56               Blepharoceridae
Invertebrates
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   Insects
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Systematic divisions. By family
Other families, A-Z -- Continued

537.B64                      Bolitophilidae
537.B65                      Bombyliidae (Beeflies)
537.B7                      Braulidae
537.C24                      Calliphoridae (Blowflies)
537.C25                      Canaceidae
537.C26                      Canthyloscelidae
537.C27                      Carnidae
537.C33                      Cecidomyiidae (Gall midges)
537.C35                      Celyphidae
537.C37                      Ceratopogonidae (Biting midges)
537.C376                     Ceroplatidae
537.C4                      Chamaemyiidae
537.C43                      Chaoboridae (Phantom midges)
537.C455                     Chiromyzidae
537.C456                     Chironomidae (Tendipedidae; midges)
537.C46                      Chloropidae
537.C49                      Chyromyiidae
537.C5                      Clusiidae
537.C56                      Chemospathidae
537.C634                     Coelopidae
537.C636                     Coenomyiidae
537.C65                      Conopidae
537.C673                     Cordyluridae
       Corethridae see QL537.C43
537.C69                      Corynoscelidae
537.C7                      Cryptochaetidae
       Culicidae see QL536
537.C8                      Cuterebridae (Rabbit bots; rodent bots)
537.C9                      Cylindrotomidae
537.D47                      Deuterophlebiidae
537.D48                      Dexiidae
537.D52                      Diadocidiidae
537.D53                      Diastatidae
537.D56                      Diopsidae
537.D58                      Ditomyiidae
537.D59                      Dixidae
537.D6                      Dolichopodidae (Long-legged flies)
537.D76                      Drosophilidae (Vinegarflies)
537.D79                      Dryomyzidae
537.E4                      Empididae (Danceflies)
537.E7                      Ephydridae
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            Gasterophilidae (Horse bots)
            Glossinidae
          Heleidae see QL537.C37
          Helomyzidae
          Hesperinidae
          Hilarimorphidae
          Hippoboscidae (Louseflies)
          Hyperoscelididae see QL537.C26
          Hypodermatidae see QL537.O4
            Ironomyiidae
            Keroplatidae
            Lauxaniidae
            Limoniidae
            Lonchaeidae
            Lonchopeteridae (Musidoridae)
            Lygistorrhinidae
            Macroceridae (Euphrosynidae)
            Manotidae
            Megamerinidae
            Metopiidae see QL537.S25
            Micropedzidae
            Milichiidae
            Mormotomyiidae
            Musciidae (Houseflies, etc.)
            Mycerobiidae
            Mycetophiliidae (Fungivoridae)
            Mydaiidae
            Mythicomyiidae
            Nemestrinidae
            Neottiophilidae
            Neriidae
            Nothybidae
            Nycteribiidae
            Nymphomyiidae
            Odiniidae
            Oestridae (Botflies; warbleflies)
            Opomyzidae
            Otitidae
            Pachyneuridae
            Pallopteridae
### Invertebrates
#### Arthropoda
##### Insects
##### Diptera (Flies)

Systematic divisions. By family

Other families, A-Z -- Continued

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<th>Code</th>
<th>Family Name</th>
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<td>537.P35</td>
<td>Pantophthalmidae</td>
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<td>537.P4</td>
<td>Periscelidae</td>
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<td>Phasiidae</td>
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<td>537.P46</td>
<td>Phoridae (Humpbacked flies)</td>
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<td>Phytalmiidae</td>
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<td>537.P56</td>
<td>Piophilidae (Skipperflies)</td>
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<td>Pipunculidae (Dorylaiidae; bigheadedflies)</td>
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<td>Platypezidae (Clythiidae)</td>
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<td>Psilidae (Rust flies)</td>
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<td>Sarcophagidae (Metopiidae; fleshflies)</td>
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<td>Scenopinidae (Omphralidae)</td>
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<td>Sciariidae (Lycoriidae; fungus gnats)</td>
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<td>Sciomyzidae</td>
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<td>Solvidae</td>
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<td>Sphaeroceridae</td>
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<td>537.S84</td>
<td>Stratiomyidae (Soldier flies)</td>
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<td>Streblidae</td>
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537.T42 Tephritidae
537.T447 Termitoxeniidae
537.T448 Tethinidae
537.T45 Thaumaleidae
537.T458 Thaumatoxeniidae
537.T47 Therevidae
537.T49 Thyreophoridae
537.T6 Tipulidae (Craneflies)
537.T7 Trichoceridae (Winter craneflies)
537.T75 Trixoscelidae
537.U4 Ulidiidae
537.X9 Xylophagidae (Erinnidae)
538 Anatomy and morphology
538.2 Physiology
Embioptera (Embiodea; web spinners)
539 General works, treatises, and textbooks

Geographical distribution
For geographical distribution of systematic divisions see QL539.3.A+

539.15 General works
539.2 North America (United States and Canada) (Table Q3)
539.22 Mexico, Central America, and West Indies (Table Q3)
539.23 South America (Table Q3)
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539.25 Asia (Table Q3)
539.26 Africa (Table Q3)
539.27 Australasia and Indo-Pacific islands (Table Q3)
539.28 Polar regions
539.29 Tropics
539.3.A-Z Systematic divisions. By family, A-Z
539.3.A5 Anisembiidae
539.3.C4 Clothodidae
539.3.E4 Embiidae
539.3.N6 Notoligotomidae
539.3.O44 Oligembiidae
539.3.O46 Oligotomidae
539.3.T4 Teratembiidæ
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Insects
  Embioptera (Embiodea; web spinners) -- Continued

539.4  Anatomy and morphology
539.42  Physiology

Mallophaga (Chewing lice)

540  General works, treatises, and textbooks
      Geographical distribution
          For geographical distribution of systematic divisions
          see QL540.3.A+

540.15  General works
540.2  North America (United States and Canada) (Table Q3)
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540.3.A-Z  Systematic divisions. By family, A-Z
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540.3.D3  Dasyonygidae
540.3.G9  Gyropidae
540.3.H4  Heptapsogastridae
540.3.L3  Laemobothridae
540.3.M4  Menoponidae
540.3.N4  Nesiotinidae
540.3.P4  Philopteridae
540.3.R5  Ricinidae
540.3.T7  Trichodectidae
540.3.T72  Trichophiloteridae
540.3.T74  Trimenoponidae

540.4  Anatomy and morphology
540.42  Physiology

Lepidoptera (Butterflies; moths)

541  Periodicals, societies, congresses, serial publications
541.5  Dictionaries and encyclopedias
542  General works, treatises, and textbooks
543  Pictorial works and atlases
544  Popular works
544.2  Juvenile works
544.6  Butterfly attracting
          Including butterfly gardens and gardening

545  Classification
Invertebrates
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545.2  Catalogs and collections
Geographical distribution
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  see QL561.A+

546  General works
  North America
548  General works
    United States
549  General works
551.A-Z  By region or state, A-Z
552  Canada
553  Mexico, Central America, and West Indies (Table Q3)
554  South America (Table Q3)
555  Europe (Table Q3)
556  Asia (Table Q3)
557  Africa (Table Q3)
557.5  Indian Ocean islands (Table Q3)
558  Australia
558.5  New Zealand
559  Pacific islands (Table Q3)
560  Arctic regions
560.5  Antarctica
560.6  Tropics
561.A25  Acraeidae
561.A254  Acrolepiidae
561.A256  Acrolophidae
561.A3  Adelidae
      Aegeriidae see QL561.S47
561.A4  Agaristidae
561.A46  Agonoxenidae
561.A48  Alucitidae
561.A5  Amathusiidae
561.A57  Amphitheridae
      Amydriidae see QL561.T55
561.A65  Anomologidae
561.A67  Anthelidae
561.A7  Apopogonidae
561.A8  Arctiidae (Tiger moths)
561.A84  Argyresthiidae
561.A865  Arrhenophandiae
561.A88  Ashinagidae
561.A93  Axidae
Invertebrates
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      Lepidoptera (Butterflies; moths)
Systematic divisions. By family, A-Z -- Continued

561.B4                   Blastobasidae
561.B6                   Bombycidae (Silkworm moths)
561.B68                  Brachodidae
561.B7                   Brahmaeidae
561.C24                  Callidulidae
561.C3                   Carposinidae
561.C35                  Castniidae
561.C4                   Cecidosetidae
561.C42                  Cercophanidae
561.C44                  Charideidae
561.C46                  Chlidanotidae
561.C47                  Choreutidae (Metalmark moths)
561.C48                  Chrysopolomidae
561.C5                   Citheroniidae (Royal moths)
561.C57                  Cochylidae
561.C58                  Coleophoridae (Casebearer moths)
561.C59                  Cosmopterigidae
561.C6                   Cossidae (Carpenterworm moths)
561.C73                  Crambidae
561.C8                   Ctenuchidae
561.C9                   Cyclotornidae
561.D25                  Dalceridae (Milkweed butterflies)
561.D3                   Danaidae (Milkweed butterflies)
561.D5                   Dipotidae
561.D6                   Douglasiidae
561.D7                   Drepanidae
561.E4                   Elachistidae
561.E5                   Endromiidae
561.E74                  Epermeniidae
561.E75                  Epicopeiidae
561.E754                 Epimarptidae
561.E757                 Epipaschiidae
561.E758                 Epiplemidae
561.E759                 Epipyropidae
561.E8                   Eriocraniidae
561.E85                  Ethmiidae
(561.E9)                 Eucleidae
  see QL561.L54
561.E94                  Eupterotidae
561.G3                   Galleriidae (Wax moths)
561.G4                   Gelechiidae
561.G6                   Geometridae
Invertebrates
  Arthropoda
    Insects
      Lepidoptera (Butterflies; moths)
        Systematic divisions. By family, A-Z -- Continued

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Invertebrates
Arthropoda
Insects
Lepidoptera (Butterflies; moths)
Systematic divisions. By family, A-Z -- Continued

561.O9                    Oxychirotidae
561.O93                   Oxytenididae
561.P17                   Palaeosetidae
561.P18                   Palaephatidae
561.P2                    Papilionidae (Swallowtail butterflies)
                          Phalonidae see QL561.C57
                          Phycitidae see QL561.P9
561.P48                   Phyllocnistidae
561.P5                    Pieridae
561.P55                   Plutellidae (Diamondback moths)
561.P57                   Prodoxidae (Yucca moths)
561.P58                   Prototheoritidae
561.P6                    Psychidae (Bagworm moths)
561.P8                    Pterophoridae (Plume moths)
561.P85                   Pterothysanidae
561.P9                    Pyralidae
561.P96                   Pyromorphidae
561.R3                    Ratardidae
561.R53                   Ridiaschinidae
561.R56                   Riodinidae
561.S2                    Saturniidae (Giant silkworm moths)
561.S3                    Satyridae
561.S35                   Scythridae
561.S44                   Sematuridae
561.S47                   Sesiiidae (Clearwing moths)
                          Setomorphidae see QL561.T55
561.S7                    Sphingidae (Sphinx moths)
561.S8                    Stenomidae
561.S87                   Strepsimanidae
561.T46                   Thyatiridae
561.T48                   Thyrididae
561.T55                   Tineidae (Clothes moths)
561.T56                   Tineodidae
561.T58                   Tischeriidae
561.T8                    Tortricidae (Leaf-roller moths)
561.U7                    Uraniidae
561.X9                    Xylorictidae
561.Y7                    Yponomeutidae (Ermine moths)
561.Z9                    Zygaenidae (Leaf-skeletonizer moths)
562                    Anatomy and morphology
562.2                    Physiology
562.4                    Behavior. Social life. Instinct
Invertebrates
Arthropoda
Insects
Lepidoptera (Butterflies; moths) -- Continued

562.6 Ecology
Hymenoptera (Ants; bees; wasps; etc.)
Cf. SF521+ Bee culture

563 General works, treatises, and textbooks
564 Pictorial works and atlases
565 Popular works
565.2 Juvenile works
566 Classification
566.2 Catalogs and collections
Geographical distribution
For geographical distribution of systematic divisions
see QL568.A+

567 General works
567.1 North America (United States and Canada) (Table Q3)
567.2 Mexico, Central America, and West Indies (Table Q3)
567.3 South America (Table Q3)
567.4 Europe (Table Q3)
567.5 Asia (Table Q3)
567.6 Africa (Table Q3)
567.7 Australia
567.75 New Zealand
567.8 Pacific islands (Table Q3)
567.9 Arctic regions
567.95 Antarctica
567.96 Tropics
568.A17 Acorduleceridae
568.A23 Agaontidae (Fig wasps)
568.A24 Agriotypidae
568.A3 Alienidae
568.A34 Alysiidae
568.A344 Alyssonidae
568.A36 Ampulicidae
568.A38 Anacharitidae
568.A4 Andrenidae
568.A48 Anthoboscidae
568.A53 Anthophoridae
568.A55 Aphelinidae
568.A57 Aphidiidae
568.A6 Apidae (Bumblebees; honeybees; stingless bees)
568.A7 Apterogynidae
568.A77 Argidae
Invertebrates
Arthropoda
Insects

Hymenoptera (Ants; bees; wasps; etc.)

Systematic divisions. By family, A-Z -- Continued

568.A8  Aspiceridae
568.A9  Aulacidae
568.B36  Belytidae
Bembicidae see QL568.S7
568.B4  Bethylidae
568.B5  Blasticotomidae
568.B8  Braconidae
568.B83  Bradynobaenidae
568.C373  Cephidae (Stem sawflies)
568.C375  Ceraphronidae
568.C377  Cerceridae
568.C4  Chalcididae
568.C44  Charitidae
568.C47  Chrysididae (Cuckoo wasps)
568.C5  Cimbicidae
568.C55  Cleonymidae
568.C56  Cleptidae
568.C6  Colletidae
568.C7  Crabronidae
568.C9  Cynipidae (Gall wasps)
568.D44  Diapriidae
568.D47  Dimorphidae
568.D5  Diprionidae (Conifer sawflies)
568.D7  Dryinidae
568.E4  Elasmidae
568.E5  Embolemidae
568.E6  Encyrtidae
568.E75  Eucharidiidae
568.E77  Eucoilidae
568.E8  Eulophidae
568.E84  Eumenidae
568.E845  Eupelmidae
568.E85  Eurytomidae
568.E9  Evaniiidae (Ensign wasps)
568.F47  Fideliiidae
568.F5  Figitidae
568.F7  Formicidae (Ants)
568.G3  Gasteruptionidae
568.G6  Gorytidae
568.H3  Halictidae (Sweat bees)
568.H4  Heloridae
568.I15  Ibaliiidae
Invertebrates
  Arthropoda
    Insects
      Hymenoptera (Ants; bees; wasps; etc.)
      Systematic divisions. By family, A-Z -- Continued

568.I2                   Ichneumonidae
568.L3                   Larridae
568.L47                  Leptofoenidae
568.L49                  Leucospididae
568.L56                  Liopteridae
(568.M3)                  Masaridae
  see QL568.V5
568.M4                   Megachilidae (Leaf-cutting bees)
568.M44                  Megalodontidae
568.M45                  Megalyridae
(568.M456)                Meliponidae
  see QL568.A6
568.M46                  Melittidae
568.M466                 Mellinidae
568.M48                  Methocidae
568.M55                  Miscogastridae
568.M56                  Miscophidae
568.M6                   Monomachidae
568.M8                   Mutillidae (Velvet ants)
568.M94                  Mymaridae (Fairyflies)
568.M944                 Mymarommatidae
568.M97                  Myrmosidae
568.N9                   Nyssonidae
568.O25                  Oberthuerellidae
568.O74                  Ormyridae
568.O78                  Orussidae (Parasitic wood wasps)
  Oryssidae see QL568.O78
568.O8                   Oxaeidae
568.O9                   Oxybelidae
568.P3                   Pamphiliidae (Web-spinning sawflies)
568.P43                  Pelecinidae
  Pemphredonidae see QL568.S7
568.P474                 Pergidae
568.P475                 Perilampidae
568.P5                   Philanthidae
568.P55                  Platygastridae
568.P58                  Plumariidae
568.P6                   Pompilidae (Spider wasps)
568.P9                   Proctotrypidae
568.P94                  Pteromalidae
568.P945                 Pterostigmatidae
568.R4                   Rhopalosomatidae

457
### Hymenoptera (Ants; bees; wasps; etc.)

#### Systematic divisions. By family, A-Z -- Continued

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### Anoplura (Sucking lice)

#### General works, treatises, and textbooks

#### Geographical distribution

For geographical distribution of systematic divisions see QL570.3.A+
Invertebrates
  Arthropoda
    Insects
      Anoplura (Sucking lice) -- Continued
      570.3.A-Z Systematic divisions. By family, A-Z
      570.3.E3 Echinophthiriide
      570.3.H34 Haematomyzidae
      570.3.H37 Haematopinidae
      570.3.H38 Haematopinoididae
      570.3.H64 Hoplopleuridae
      570.3.N4 Neolignathidae
      570.3.P4 Pediculidae
      570.3.P5 Phthiriidae

Coleoptera (Beetles)
  571 Periodicals, societies, congresses, serial publications
  572 Collected works (nonserial)
  573 General works, treatises, and textbooks
  575 Pictorial works and atlases
  576 Popular works
  576.2 Juvenile works
  577 Classification
  577.2 Catalogs and collections

Geographical distribution
  For geographical distribution of systematic divisions
  see QL596.A+
Invertebrates
  Arthropoda
    Insects
      Coleoptera (Beetles)
        Geographical distribution -- Continued
        Tropics
        Systematic divisions. By family, A-Z
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        Aculognathidae
        Aderidae
        Aegialiiidae
        Aglycyderidae
        Alleculidae
        Alticidae
        Amphizoidae
        Anobiidae
        Anthicidae (Antlike flower beetles)
        Anthribidae (Fungus weevils)
        Aphodiidae
        Atractoceridae
        Attelabidae
        Bostrichidae (False powerpost beetles)
        Bothrideridae
        Brachypteridae
        Brachyspectridae
        Brathinidae
        Brentidae
        Bruchidae (Seed beetles)
        Buprestidae (Metallic wood borers)
        Byrrhidae
        Byturidae (Fruitworm beetles)
        Cantharidae (Soldier beetles)
        Carabidae (Ground beetles)
        Cassididae see QL596.C5
        Catopochrotidae
        Cebroidae
        Cephaloidae
        Cerambycidae
        Ceratocanthidae
        Cerophytidae
        Cetoniidae
        Chapuisiidae
        Chelonariidae
        Chlamisidae
        Chrysomelidae (Leaf beetles)
        Cincindelidae (Tiger beetles)
        Cilidae
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Coleoptera (Beetles)
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596.C613  Cistelidae
596.C617  Clambidae
596.C618  Clavigeridae
596.C62   Cleridae (Checkered beetles)
596.C64   Clytridae
596.C65   Coccinellidae (Lady beetles)
596.C66   Colydiidae. Colydiinae (Cylindrical bark beetles)
596.C667  Corylophidae
596.C67   Corynetidae
596.C68   Cossyphodidae
596.C7    Crioceridae
596.C77   Cryptocephalidae
596.C78   Cryptophagidae
596.C8    Cucujidae (Flat-bark beetles)
596.C85   Cupidae
596.C9    Curculionidae (Snout beetles)
596.C93   Cyathoceridae
596.C933  Cybocephalidae
596.C94   Cyladidae
596.D37   Dascyllidae
596.D375  Dasytidae
596.D4    Dermestidae
596.D42   Derodontidae
596.D57   Diphylliidae
596.D58   Discolomidae
596.D59   Disteniidae
596.D6    Donaciidae
596.D67   Drilidae
596.D7    Dryopidae
596.D85   Dynastidae
596.D9    Dytiscidae (Predaceous diving beetles)
596.E3    Ectrephidae
596.E38   Elacatidae
596.E4    Elateridae (Click beetles)
596.E45   Elmidae
596.E5    Endomychidae
596.E7    Erotylidae
596.E76   Euchiridae
596.E77   Eucinetidae
596.E8    Eucnemidae
596.E84   Eugleniidae
596.E85   Eumolpidae
Invertebrates
  Arthropoda
    Insects
      Coleoptera (Beetles)
      Systematic divisions. By family, A-Z -- Continued

596.E87  Eurystethidae
596.G3   Galerucidae
596.G47  Georyssidae
596.G48  Geotrupidae
596.G5   Glaphyridae
596.G6   Gnostidae
596.G8   Gyrinidae (Whirligig beetles)
596.H2   Haliplidae
596.H38  Helodidae
596.H4   Helotidae
596.H43  Hemipeplidae
596.H45  Heteroceridae
596.H48  Hispidae
596.H5   Histeridae (Hister beetles)
596.H78  Hybosoridae
596.H79  Hydraenidae
596.H8   Hydrophilidae (Water scavenger beetles)
596.H85  Hydroscaphidae
596.H9   Hygrobiidae
596.H95  Hypocephalidae
596.I7   Iridae
596.J3   Jacobsoniidae
596.L23  Lagriidae
596.L25  Lamiidae
596.L27  Lamprosomatidae
596.L28  Lampyridae (Fireflies)
596.L29  Languridae
596.L3   Lathridiidae
596.L35  Leiodidae (Round fungus beetles)
596.L4   Leptinidae
596.L43  Leptodiridae
596.L55  Limnichidae
596.L58  Limulodidae
596.L8   Lucanidae (Stag beetles)
596.L9   Lycidae (Netwinged beetles)
596.L92  Lycitidae (Powderpost beetles)
596.L94  Lyxmxelylidae (Timber beetles)
596.M2   Malachiidae
596.M3   Megalopodidae
596.M34  Megascelidae
      Melasidae see QL596.E8
596.M38  Meloidae (Blister beetles)
Invertebrates
   Arthropoda
      Insects
         Coleoptera (Beetles)
            Systematic divisions. By family, A-Z -- Continued
         596.M4                   Melolonthidae (Cockchafers)
         596.M43                  Melyridae
         596.M47                  Micromalthidae
         596.M5                   Micropepidae
         596.M53                  Monoedidae
         Monommatidae see QL596.Z66
         596.M57                  Monotomidae
         596.M6                   Mordellidae (Tumbling flower beetles)
         596.M8                   Murmidiidae
         596.M9                   Mycetaeidae
         596.M92                  Mycetophagidae (Hairy fungus beetles)
         596.N4                   Nemonychidae
         596.N54                  Nilionidae
         596.N57                  Niponiidae
         596.N58                  Nitidulidae (Sap beetles)
         596.N6                   Nosodendridae
         596.O25                  Ochodaeididae
         596.O4                   Oedemeridae
         596.O67                  Orphnidae
         596.O7                   Orthoperidae
         Ostomatidae see QL596.T8
         596.P13                  Pachypodidae
         596.P17                  Parandridae
         596.P2                   Passalidae
         596.P25                  Passandridae
         596.P3                   Pedilidae
         596.P38                  Petriidae
         596.P4                   Phaenocephalidae
         596.P42                  Phaenomeridae
         596.P46                  Phalacridae (Shining fungus beetles)
         596.P47                  Phenogodidae (Glowworms)
         596.P5                   Plastoceridae
         596.P6                   Platypodidae
         596.P62                  Platypyllidae
         596.P63                  Pleocomidae
         596.P7                   Prionidae
         596.P75                  Proterhinidae
         596.P8                   Pselaphidae
         596.P815                 Psephenidae
         596.P83                  Ptiliidae
         596.P85                  Ptilinidae (Spider beetles)
         596.P96                  Pyrochroidae

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Arthropoda
Insects
Coleoptera (Beetles)
Systematic divisions. By family, A-Z -- Continued

596.P98                  Phthidae
596.R4                   Rhipiceridae
596.R485                 Rhipiphoridae
596.R5                   Rhizophagidae
596.R57                  Rhysodidae
596.R8                   Rutelidae
596.S23                  Sagridae
596.S28                  Scaphidiidae
596.S3                   Scarabaeidae (Scarabs)
596.S35                  Scolytidae (Bark beetles)
596.S353                 Scolytoplatypodidae
596.S38                  Scaptiidae
596.S4                   Scydmaenidae
596.S45                  Serropalpidae
596.S49                  Silvanidae
596.S5                   Silphidae (Carrion beetles)
596.S53                  Sinodendridae
596.S6                   Smicripidae
596.S65                  Sphaeriidae
596.S66                  Sphaeritidae
596.S68                  Sphaerosomatidae
596.S7                   Sphindidae
596.S75                  Staphylinidae (Rove beetles)
596.S9                   Synteliidae
596.T16                  Telegeusidae
596.T2                   Tenebrionidae (Darkling beetles)
596.T27                  Tetratomidae
596.T35                  Thorictidae
596.T4                   Throscidae
596.T7                   Trichiidae
                Trichopterygidae see QL596.P83
596.T75                  Tricenotomidae
596.T78                  Trogidae
596.T8                   Trogositidae
596.U75                  Urodonitidae
596.V47                  Vesperidae
596.Z66                  Zopheridae (Ironclad beetles)
597                  Anatomy and morphology
597.2                  Physiology
                Thysanoptera (Thrips)
598                  General works, treatises, and textbooks
Invertebrates
  Arthropoda
    Insects
      Thysanoptera (Thrips) -- Continued

Geographical distribution
  For geographical distribution of systematic divisions
  see QL598.3.A+

598.15 General works
598.2 North America (United States and Canada) (Table Q3)
  Mexico, Central America, and West Indies (Table Q3)
598.22 South America (Table Q3)
598.24 Europe (Table Q3)
598.25 Asia (Table Q3)
598.26 Africa (Table Q3)
598.27 Australasia and Indo-Pacific islands (Table Q3)
598.28 Polar regions
598.29 Tropics
598.3.A-Z Systematic divisions. By family, A-Z
  Aeolothripidae
  Ceratothripidae
  Chirothripoididae
  Ecacanthothripidae
  Eupatithripidae
  Franklinothripidae
  Heterothripidae
  Hystrichothripidae
  Idolothripidae
  Megathripidae
  Melanothripidae
  Merothripidae
  Mymarothripidae
  Orothripidae
  Panchaetothripidae
  Phlaeothripidae
  Phloeothripidae
  Pygothripidae
  Thripidae
  Urothripidae

598.4 Anatomy and morphology
598.42 Physiology

Mecoptera (Scorpionflies)
598.5 General works, treatises, and textbooks
Geographical distribution
  For geographical distribution of systematic divisions
  see QL598.7.A+
598.52 General works
Invertebrates
  Arthropoda
    Insects
      Mecoptera (Scorpionflies

Geographical distribution

598.6  North America (United States and Canada) (Table Q3)
598.62  Mexico, Central America, and West Indies (Table Q3)
598.63  South America (Table Q3)
598.64  Europe (Table Q3)
598.65  Asia (Table Q3)
598.66  Africa (Table Q3)
598.67  Australasia and Indo-Pacific islands (Table Q3)
598.68  Polar regions
598.69  Tropics


598.7.B5  Bittacidae
598.7.B6  Boreidae
598.7.M4  Meropeidae
598.7.N6  Notiothaumidae
598.7.P3  Panorpidae

598.8  Anatomy and morphology
598.82  Physiology

Strepsiptera (Twisted-winged parasites)

599  General works, treatises, and textbooks
Geographical distribution
  For geographical distribution of systematic divisions
  see QL599.3.A+

599.15  General works
599.2  North America (United States and Canada) (Table Q3)
      Mexico, Central America, and West Indies (Table Q3)
599.23  South America (Table Q3)
599.24  Europe (Table Q3)
599.25  Asia (Table Q3)
599.26  Africa (Table Q3)
599.27  Australasia and Indo-Pacific islands (Table Q3)
599.28  Polar regions
599.29  Tropics

599.3.A-Z  Systematic divisions. By family, A-Z

599.3.C32  Callipharixenidae
599.3.E4  Elenchidae
599.3.H3  Halictophagidae
599.3.M45  Mengeidae
599.3.M46  Mengenillidae
599.3.M9  Myrmecolacidae
599.3.S85  Stichotrematidae
Invertebrates
  Arthropoda
    Insects
      Strepsiptera (Twisted-winged parasites)
      Systematic divisions. By family, A-Z -- Continued
        599.3.S89
          Stylopidae
        599.4
          Anatomy and morphology
        599.42
          Physiology
      Siphonaptera (Fleas)
        599.5
          General works, treatises, and textbooks
          Geographical distribution
            For geographical distribution of systematic divisions see QL599.7.A+
        599.52
          General works
        599.6
          North America (United States and Canada) (Table Q3)
        599.62
          Mexico, Central America, and West Indies (Table Q3)
        599.63
          South America (Table Q3)
        599.64
          Europe (Table Q3)
        599.65
          Asia (Table Q3)
        599.66
          Africa (Table Q3)
        599.67
          Australasia and Indo-Pacific islands (Table Q3)
        599.68
          Polar regions
        599.69
          Tropics
        599.7.A-Z
          Systematic divisions. By family, A-Z
        599.7.C47
          Ceratophyllidae
        599.7.D6
          Dolichopsyllidae
        599.7.H4
          Hectopsyllidae
        599.7.H9
          Hystrichopsyllidae
        599.7.I3
          Ischnopsyllidae
        599.7.P8
          Pulicidae
        599.7.S8
          Stephanocircidae
        599.7.T8
          Tungidae
        599.8
          Anatomy and morphology
        599.82
          Physiology
      Chordates. Vertebrates
        For behavior see QL750+
        For anatomy see QL801+
        For physiology see QP1+
        605.A1
          Periodicals, societies, congresses, serial publications
        605.A2
          Collected works (nonserial)
        605.A3-Z
          General works, treatises, and textbooks
        605.2
          Popular works
        605.3
          Juvenile works
        605.4
          Dictionaries and encyclopedias
          Rare and endangered species see QL81.5+
Chordates. Vertebrates -- Continued

606
  Introduced vertebrates
    For local see QL606.5+

Geographical distribution
  For geographical distribution of systematic divisions, see the
division, e.g. QL619+, Fishes

606.5
  General works
606.52
  North America (United States and Canada) (Table Q3)
606.53
  Mexico, Central America, and West Indies (Table Q3)
606.54
  South America (Table Q3)
606.55
  Europe (Table Q3)
606.56
  Asia (Table Q3)
606.57
  Africa (Table Q3)
606.58
  Australasia and Indo-Pacific islands (Table Q3)
  Arctic regions

606.59
  General works
606.592
  Bering Land Bridge Region. Beringia
606.594
  Greenland
606.597
  Antarctica
606.6
  Tropics

607
  Classification
607.2
  Catalogs and collections
607.5
  Evolution (General)
607.6
  Population dynamics
607.9
  Collection and preservation
  Protochordata
610
    General works
611
    Cephalochordata
612
    Hemichordata
613
    Urochordata (Tunicata)
  Fishes
    Cf. SH1+ Fish culture, fisheries, angling
614
    Periodicals, societies, congresses, serial publications
614.5
    Collected works (nonserial)
614.7
    Dictionaries and encyclopedias
    Communication of information
614.73
    General works
614.74
    Information services
614.75
    Computer network resources
      Including the Internet
    History of ichthyology
614.8
    General works
614.83.A-Z
    By region or country, A-Z
    Biography of ichthyologists see QL26+
614.9
    Directories
615
    General works, treatises, and textbooks
616
    Pictorial works and atlases

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Chordates. Vertebrates
Fishes -- Continued

617  Popular works
617.2  Juvenile works
       Rare and endangered species
617.7  General works
617.73.A-Z  By region or country, A-Z
618  Classification. Nomenclature
618.15  Catalogs and collections
618.2  Evolution. Speciation
618.3  Population dynamics
       Study and teaching. Research
618.5  General works
618.55  Fish watching
       For fish watching in individual regions or countries, see QL620+
618.6  Collection and preservation. Fish mounting
       Cf. SH338+ Fisheries museums and exhibitions
618.65  Fish surveys
       For fish surveys in individual regions or countries, see QL620+
618.7  Poisonous fishes. Dangerous fishes
       Cf. QL638.93 Shark attacks
Geographical distribution
       For geographical distribution of systematic divisions see QL637.9+

619  General works
Physiographic divisions
   Marine fishes
       For marine fishes of a particular coast see QL625+
620  General works
620.2  Circumpolar
       Cf. QL637 Arctic Ocean
       Cf. QL637.2 Antarctic Ocean
620.4  Circumtropical
620.45  Coral reefs
620.6  Intertidal fishes
   Atlantic Ocean
       Cf. QL632.5 Atlantic Ocean islands
621  General works
   North Atlantic
621.2  General works
   Eastern North Atlantic
      Including the coast of Europe
621.3  General works
621.32  Greenland Sea
621.34  Norwegian Sea
Chordates. Vertebrates
  Fishes
    Geographical distribution
    Physiographic divisions
    Marine fishes
    Atlantic Ocean
      North Atlantic
        Eastern North Atlantic -- Continued
          621.35
            Baltic Sea
              Including the Gulf of Bothnia
          621.36
            Kattegat. Skagerrak
          621.37
            North Sea
          621.38
            English Channel
          621.39
            Irish Sea
          621.395
            Biscay, Bay of
              Mediterranean Sea
          621.4
            General works
          621.42
            Adriatic Sea
          621.44
            Aegean Sea
          621.46
            Black Sea
          Western North Atlantic
            Including the coast of North America
            621.5
              General works
            621.52
              Baffin Bay
            621.53
              Davis Strait
            621.54
              Newfoundland Banks
            621.56
              Gulf of Mexico
            621.58
              Caribbean Sea
          Central Atlantic. Tropical Atlantic
            621.6
              General works
            621.62
              Eastern Central Atlantic
            621.65
              Western Central Atlantic
          South Atlantic
            621.7
              General works
              Eastern South Atlantic
                Including the coast of Africa
                621.72
                  General works
                621.75
                  Gulf of Guinea
            621.77
              Western South Atlantic
                Including the coast of South America
            Indian Ocean
              Cf. QL636.7 Indian Ocean islands
            622
              General works
              North Indian Ocean
            622.2
              General works
              Arabian Sea
            622.3
              General works
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Geographical distribution
Physiographic divisions
Marine fishes
Indian Ocean
North Indian Ocean
Arabian Sea -- Continued
622.32
Persian Gulf
622.34
Red Sea
622.36
Gulf of Aden
Bay of Bengal
622.4
General works
622.45
Andaman Sea
South Indian Ocean
622.5
General works
622.55
Mozambique Channel
Pacific Ocean
Cf. QL636.5 Pacific islands
623
General works
North Pacific
623.2
General works
623.3
Bering Sea
Eastern North Pacific
Including the coast of North America
623.4
General works
623.45
Gulf of Alaska
Western North Pacific
Including the coast of Asia
623.5
General works
623.52
Okhotsk Sea
623.53
Japan Sea
623.54
Yellow Sea
China Sea
623.548
General works
623.55
East China Sea
623.56
South China Sea
623.58
Philippine Sea
623.59
Tonkin, Gulf of
623.6
Central Pacific. Tropical Pacific
South Pacific
623.7
General works
623.8
Eastern South Pacific
Including the coast of South America
Western South Pacific
Including Australasia
623.9
General works
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623.92
Java Sea
623.94
Coral Sea
623.96
Tasman Sea
623.98
Indo-Pacific region
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Antarctic Ocean see QL637.2
624
Freshwater fishes
Class here general works only
For fishes of a particular area see QL625+
Topographic divisions
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625
General works
625.5
Great Lakes
Canada
626
General works
626.5.A-Z
By region or province, A-Z
United States
627
General works
628.A-Z
By region or state, A-Z
Cf. QL636.5 Hawaii
Latin America
628.5
General works
629
Mexico
630
Central America (Table Q3)
631
West Indies (Table Q3)
632
South America (Table Q3)
632.5
Atlantic Ocean islands (Table Q3)
633
Europe (Table Q3)
634
Asia (Table Q3)
635
Africa (Table Q3)
Australia
636
General works
636.15.A-Z
By state, territory, or region, A-Z
636.2
New Zealand
636.5
Pacific islands (Table Q3)
636.7
Indian Ocean islands (Table Q3)
637
Arctic regions
Including the Arctic Ocean
Chordates. Vertebrates
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Geographical distribution
Topographical divisions -- Continued

637.2
Antarctica
Including the Antarctic Ocean

637.5
Tropics

Systematic divisions

637.9.A-Z
Osteichthys (Bony fishes). By order, A-Z
Class species, genera, and families in QL638
Class single-family orders with family in QL638
For general works and works on higher groups of
bony fishes, except dipnoid and ganoid fishes see
QL615
For general works on dipnoid and ganoid fishes see
QL638.3

637.9.A3
Acipenseriformes
Amiiformes see QL638.A37

637.9.A5
Anguilliformes (Eels)

637.9.A8
Atheriniformes

637.9.A93
Aulopiformes
Batrachoidiformes see QL638.B3

637.9.B36
Beloniformes

637.9.B4
Beryciformes
Ceratodontiformes see QL638.C356

637.9.C35
Cetomimiformes
Channiformes see QL638.C486

637.9.C38
Characiformes

637.9.C4
Clupeiformes
Coelacanthiformes see QL638.L26
Ctenothrissiformes see QL638.M13

637.9.C9
Cypriniformes

637.9.C95
Cyprinodontiformes

637.9.D3
Dactylopteriformes

637.9.D5
Dipteriformes

637.9.E4
Elopiformes

637.9.G3
Gadiformes

637.9.G37
Gasterosteiformes
Gobiesociformes see QL638.G6

637.9.G6
Gonorynchiformes

637.9.G94
Gymnotiformes

637.9.L3
Lampridiformes
Lepisosteiformes see QL638.L4

637.9.L6
Lophiiformes

637.9.M6
Mormyriformes

637.9.M93
Myctophiformes

637.9.N6
Notacanthiformes
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Osteichthys (Bony fishes). By order, A-Z -- Continued

637.9.O63 Ophidiiformes
637.9.O76 Osmeriformes
637.9.O8 Osteoglossiformes
Pegasiformes see QL638.P32
637.9.P46 Perciformes
637.9.P47 Percopsiformes
637.9.P5 Pleuronectiformes
Polypteriformes see QL638.P76
637.9.S3 Salmoniformes
637.9.S35 Scorpaeniformes
637.9.S5 Siluriformes
637.9.S9 Synbranchiformes
637.9.T4 Tetraodontiformes
637.9.Z4 Zeiformes

Class here works on species, genera, and families

638.A15 Acanthoclinidae
638.A2 Acanthuridae (Surgeonfishes)
638.A25 Acipenseridae (Sturgeons)
638.A27 Acropomatidae
638.A29 Adrianichthyidae
638.A3 Ageneiosidae
638.A316 Agonidae (Poachers)
638.A32 Akysidae
Alabetidae see QL638.G6
638.A335 Albulidae (Bonefishes)
638.A34 Alepisauridae (Lancetfishes)
638.A35 Alepocephalidae
638.A36 Amarsipidae
638.A364 Amblycipitidae
638.A366 Amblyopsidae (Cavefishes)
638.A37 Amiidae (Bowfins)
638.A4 Ammodytidae (Sand lances)
638.A44 Amphiliidae
638.A47 Amphipnoidae
638.A5 Anabantidae
638.A53 Anablepidae
638.A54 Anarhichadidae (Wolffishes)
638.A55 Anguillidae (Freshwater eels)
Anisochromidae see QL638.P84
638.A556 Anomalopidae
638.A56 Anoplogasteridae
638.A567 Anoplopomatidae (Sablefishes)
Chordates. Vertebrates
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Osteichthys (Bony fishes). By family, A-Z -- Continued

638.A568  Anostomidae
638.A57   Anotopteridae (Daggertooths)
638.A577  Antennariidae (Frogfishes)
638.A6    Aoteidae
638.A63   Aphredoderidae (Pirate perches)
638.A64   Aploactinidae
638.A642  Aplocheilidae
638.A643  Aplochitonidae
638.A65   Aplodactylidae
638.A7    Apogonidae (Cardinalfishes)
638.A73   Apteronotidae
          Arapaimidae see QL638.O88
638.A75   Argentinidae
638.A755  Ariidae (Sea catfishes)
638.A77   Arripidae
638.A78   Aspredinidae
638.A785  Astroblepidae
638.A788  Astronesthidae
638.A79   Ateleopodidae
638.A8    Atherinidae (Silversides)
638.A83   Auchenipteridae
638.A84   Aulopodidae
638.A844  Aulorhynchidae
638.A848  Aulostomidae (Trumpetfishes)
638.B13   Bagridae
638.B15   Balistidae (Triggerfishes; filefishes)
638.B153  Balitoridae (Hillstream loaches)
638.B155  Banjosidae
638.B17   Barbouriidae
638.B18   Bathycalupeidae
638.B23   Bathylagonidae
638.B25   Bathylagidae (Deepsea smelts)
638.B26   Bathymasteridae (Ronquils)
638.B27   Bathypteroidae
638.B3    Batrachoididae (Toadfishes)
638.B34   Belonidae (Needlefishes)
638.B347  Belontiidae
638.B4    Berycidae
638.B6    Blenniidae (Combtooth blennies)
638.B65   Bothidae (Lefteye flounders)
638.B67   Bovichthyidae
638.B7    Bracionichthyidae (Handfishes)
Chordates. Vertebrates
Fishes
Systematic divisions
Osteichthys (Bony fishes). By family, A-Z -- Continued

638.B8    Bramidae (Pomfrets)
638.B83   Branchiostegidae (Tilefishes)
638.B85   Bregmacerotidae (Codlets)
638.C12   Caesionidae
638.C14   Callichthyidae
638.C15   Callionymidae (Dragonets)
638.C2    Caproidae (Boarfishes)
638.C23   Caracanthidae
638.C25   Carangidae (Jacks; pompanos)
638.C26   Carapidae (Pearlfishes)
638.C265  Caristiidae
638.C27   Catostomidae (Suckers)
638.C28   Caulophrynidae
638.C3    Centrarchidae (Sunfishes)
638.C32   Centriscidae (Snipefishes)
638.C326  Centrolophidae
638.C33   Centrophrynidae
638.C34   Centropomidae (Snooks)
638.C347  Cepolidae
638.C35   Ceratiidae (Seadevils)
638.C356  Ceratodontidae
638.C36   Cetomimidae
638.C37   Cetopsidae
638.C385  Chacidae
638.C4    Chaenopsidae
638.C48   Chaetodontidae (Butterflyfishes)
638.C483  Champsodontidae
638.C484  Channidae
638.C485  Channichthyidae
638.C486  Channidae
638.C5    Characidae (Characins; tetras)
638.C53   Chaunacidae
638.C534  Chauliodontidae (Viperfishes)
638.C5344 Chaunacidae
638.C536  Cheilodactylidae
638.C5365 Cheimarrhichthyidae
638.C54   Chiasmodontidae
638.C544  Chilodontidae
638.C547  Chironemidae
638.C549  Chlorophthalmidae (Greeneyes)
638.C55   Cichlidae (Cichlids)
638.C577  Cirrhitidae (Hawkfishes)
638.C578  Citharidae

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Chordates. Vertebrates
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Osteichthys (Bony fishes). By family, A-Z -- Continued

638.C5785                Citharinidae
638.C6                Claridae (Airbreathing catfishes)
638.C63                Clinidae (Clinids; blennies)
638.C64                Clupeidae (Herrings)
638.C647                Cobitidae (Loaches)
(638.C65)                Coelacanthidae
see QL638.L26
638.C6535                Colocongridae
638.C654                Comephoridae
638.C655                Congiopodidae
638.C66                Congridae (Conger eels)
638.C666                Congrogadidae
638.C7                Corexinae
Coregonidae see QL638.S2
638.C795                Coryphaenidae (Dolphinfishes)
Coryphaenoididae see QL638.M2
638.C8                Cottidae (Sculpins)
638.C816                Cottocomephoridae
638.C818                Cottunculidae
638.C83                Cranoglanididae
638.C84                Creedidae
638.C88                Ctenoluciidae
638.C89                Curimatidae
638.C9                Cyclopteridae (Lumpsuckers; snailfishes)
638.C914                Cyemidae
638.C92                Cynodontidae
638.C93                Cynoglossidae (Tonguefishes)
638.C94                Cyprinidae (Minnows; carps)
638.C96                Cyprinodontidae (Killifishes)
638.D3                Dactylopteridae (Flying gurnards)
638.D35                Dactyloscopidae (Sand stargazers)
638.D4                Denticipitidae
638.D47                Derichthyidae
638.D5                Diceratiidae
638.D56                Diodontidae (Porcupinefishes)
638.D57                Diplomystidae
638.D577                Diretmidae
638.D58                Distichodontidae
638.D6                Doradidae
638.D73                Drepaneidae (Sicklefishes)
Dummumieriiidae see QL638.C64
638.D93                Dysomnidae (Arrowtooth eels)
638.D95                Dysomminidae
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Osteichthys (Bony fishes). By family, A-Z -- Continued

638.E2                Echeneidae (Remoras)
638.E34                Electrophoridae (Electric eel)
638.E4                Elopidae (Ladyfishes, etc.)
638.E5                Embiotocidae (Surfperches)
638.E53                Emmelichthyidae (Bonnetmouths)
638.E55                Engraulidae (Anchovies)
638.E556                Enoplosidae
638.E6                Ephippidae (Spadefishes)
638.E62                Epigonidae (Deepwater cardinalfishes)
638.E65                Erythrinidae
638.E7                Esocidae (Pikes)
638.E8                Eurypharyngidae
638.E83                Eutaeniophoridae
638.E87                Evermannellidae
638.E9                Exocoetidae (Flying fishes)
Fierasferidae see QL638.C26
638.F5                Fistulariidae (Cornetfishes)
638.F6                Formionidae
638.F86                Fundulidae
638.G2                Gadidae (Codfishes)
638.G23                Gadopsidae
638.G25                Galaxiidae
638.G266                Gasteropelecidae
638.G27                Gasterosteidae (Stickelbacks)
638.G4                Gempylidae (Snake mackerels)
638.G43                Gerridae (Mojarras)
638.G45                Gibberichthyidae
638.G455                Gigantactinidae
638.G5                Giganturidae
638.G55                Glaucosomitidae (Pearl perches)
638.G6                Gobiesocidae (Clingfishes)
638.G7                Gobiidae (Gobies)
638.G73                Gobioidae
638.G75                Gonorynchidae
638.G8                Gonostomatidae (Lightfishes)
638.G82                Goodeidae
638.G843                Grammicolepididae
638.G844                Grammatidae
638.G848                Grammistidae (Soapfishes)
638.G85                Gregoryinidae
638.G87                Gymnarchidae
Gymnodontidae see QL638.T32
638.G9                Gymnotidae
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Osteichthys (Bony fishes). By family, A-Z -- Continued

638.G95                Gyrinocheilidae
638.H23                Haemulidae (Grunts)
638.H25                Halosauridae
638.H28                Harpagiferidae
638.H3                 Harpodontidae
638.H444               Helogeneidae
638.H448               Helostomatidae
638.H45                Hemiodontidae
638.H46                Hemiramphidae (Halfbeaks)
638.H47                Hepsetidae
638.H484               Heterenchelyidae
638.H486               Heteropneustidae
638.H49                Hexagrammidae (Greenlings)
638.H54                Himantolophidae (Footballfishes)
638.H56                Hiodontidae (Mooneyes)
638.H64                Holocentridae (Squirrelfishes)
(638.H66)                Homalopteridae  
                      see QL638.B153
638.H67                Hoplichthyidae
638.H68                Horabagridae
638.H93                Hypophthalmidae
638.H935               Hypoptychidae
638.I13                Icelidae
638.I15                Ichthyorbidae
638.I23                Icosteidae (Ragfishes)
638.I3                 Ictaluridae (Freshwater catfishes)
638.I35                Idiacanthidae
638.I4                 Indostomidae
638.I6                 Ipripidae
638.I86                Isonidae
638.I88                Istiophoridae (Billfishes)
638.J4                 Jenynsiidae
638.K3                 Kasidoridae
638.K5                 Kneriidae
638.K6                 Korsogasteridae
638.K7                 Kraemeridae
638.K8                 Kuhliidae
638.K87                Kurtidae
638.K9                 Kyphosidae (Sea chubs)
638.L115               Labracoglossidae
638.L12                Labridae (Wrasses)
638.L2                 Lacteriidae
638.L24                Lampridae (Opahs)
Chordates. Vertebrates
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Osteichthys (Bony fishes). By family, A-Z -- Continued

638.L26 Latimeriidae
638.L28 Latridae
638.L3 Lebiasinidae
638.L35 Leiognathidae
638.L37 Lepidosirenidae
638.L4 Lepisosteidae (Gars)
638.L47 Leptoscopidae
638.L48 Lethrinidae
638.L5 Lebiasinidae
638.L55 Linophrynidae
638.L57 Liparidae see QL638.C9
638.L6 Lipogenidae
638.L75 Lophiidae (Goosefishes)
638.L77 Lophotidae (Crestfishes)
638.L785 Loricariidae (Armored catfishes)
638.L8 Luciocephalidae
638.L9 Lutjanidae (Snappers)
638.L95 Luvoridae (Louvars)
638.M13 Macristiidae
638.M16 Macrocephenchelyidae
638.M165 Macrorhamphosidae
638.M2 Macrouridae (Grenadiers)
638.M22 Macrurocytidae
638.M24 Malacosteidae
638.M246 Malapteruridae
638.M28 Mastacembelidae
638.M33 Megalopidae (Tarpon)
638.M34 Melamphaeidae
638.M35 Melanocetidae
638.M3573 Melanostomiidae see QL638.M3573
638.M358 Melanotaeniidae
638.M37 Menidae
638.M4 Merlucciidae
638.M5 Microdesmidae (Wormfishes)
638.M57 Microstomidae see QL638.B25
638.M57 Mirapinnidae
638.M6 Mochokidae
638.M64 Molidae (Molas)
638.M645 Monacanthidae
638.M65 Monocentridae
638.M653 Monodactylidae
Chordates. Vertebrates
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Osteichthys (Bony fishes). By family, A-Z -- Continued

- 638.M654 Monognathidae
- 638.M67 Moridae
- 638.M675 Moringuidae (Spaghetti eels)
- 638.M676 Mormyridae
- 638.M678 Moronidae
- 638.M8 Mugilidae (Mullets)
- (638.M84) Mugiloididae
  see QL638.P613
- 638.M85 Mullidae (Goatfishes)
- 638.M87 Muraenidae (Morays)
- 638.M876 Muraenolepididae
- 638.M9 Myctophidae (Lanternfishes)
- 638.M97 Myrocongridae
- 638.N25 Nandidae
- 638.N3 Neenchelyidae
- 638.N33 Nematistiidae
- 638.N34 Nemichthyidae (Snipe eels)
- 638.N347 Nemipteridae
- 638.N36 Neoceratiidae
- 638.N38 Neoscopelidae
- 638.N387 Neostethidae
- 638.N4 Nessorhamphidae
- 638.N46 Nettastomatidae
- 638.N5 Nomeidae
- 638.N57 Normanichthyidae
- 638.N58 Notacanthidae (Spiny eels)
- 638.N586 Notogaptidae
- 638.N5867 Notopteridae
- 638.N5873 Notosudidae
- 638.N6 Nototheniidae
  Novumbridae see QL638.U5
- 638.O2 Odacidae
- 638.O23 Odontobutidae
- 638.O3 Ogcocephalidae (Batfishes)
- 638.O4 Olyridae
- 638.O45 Omosudidae
- 638.O5 Oneirodidae
- 638.O633 Ophichthidae (Snake eels)
- 638.O634 Ophicliniidae
- 638.O637 Ophidiidae (Cusk eels)
- 638.O65 Opisthognathidae (Jawfishes)
- 638.O657 Opisthoproctidae (Spookfishes)
Chordates. Vertebrates
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   Osteichthys (Bony fishes). By family, A-Z -- Continued

638.O67                Oplegnathidae
638.O7                Oreosomatidae
638.O78                Oryziatidae
638.O84                Osmeridae (Smelts)
638.O87                Osphronemidae
638.O88                Osteoglossidae
638.O887                Ostraciontidae
638.O9                Owstoniidae

Oxudercidae see QL638.G7

638.P254                Pangasiidae
638.P258                Pantodontidae
638.P3                Paralepididae
638.P313                Paralichthyidae (Sand flounders)
638.P315                Parazenidae
638.P316                Parodontidae
638.P318                Pataecidae
638.P32                Pegasidae
638.P34                Pempheridae (Sweepers)
638.P35                Pentacerotidae (Armorheads)
638.P357                Penatpodidae
638.P358                Percichthyidae
638.P4                Percidae (Perches; darters)
638.P464                Percophididae (Flatheads)
638.P468                Percopsidae (Trout-perches)
638.P47                Peronedysidae
638.P5                Phalostethidae
638.P55                Pholidichthyidae
638.P56                Pholididae (Gunnels)
638.P57                Phractolaemidae
638.P58                Phycidae
638.P6                Pimelodidae
638.P613                Pinguipedidae (Sandperches)
638.P62                Platyecephalidae
638.P63                Platytroctidae
638.P64                Plecoglossidae
638.P648                Plesiopidae
638.P7                Pleuronectidae (Righteye flounders)
638.P72                Plotosidae
638.P73                Poeciliidae (Livebearers)
638.P747                Polymixiidae (Beardfishes)
638.P75                Polynemidae (Threadfins)
638.P755                Polyodontidae (Paddlefishes)
638.P76                Polypteridae
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638.P768    Pomacanthidae (Marine angelfishes)
638.P777    Pomacentridae (Damselsfishes)
(638.P772)  Pomadasyidae (Grunts)
see QL638.H23
638.P778    Pomatomidae (Bluefishes)
638.P785    Priacanthidae (Bigeyes)
638.P786    Prochilodontidae
638.P788    Profundulidae (Middle American killifishes)
638.P8      Psettodidae
638.P84     Pseudochromidae
638.P844    Pseudogrammidae
Pseudoplesiopidae see QL638.P84
638.P855    Psilorhynchidae
638.P88     Psychrolutidae
638.P9      Ptilichthyidae (Quillfishes)
Pygidiidae see QL638.T76
638.P97     Pyramodontidae
638.R3      Rachycentridae (Cobias)
638.R4      Regalecidae (Oarfishes)
638.R48     Retropinnidae
638.R5      Rhamphichthyidae
638.R55     Rhinoprenidae
638.R59     Rhacichthyidae
638.R65     Rondeletiidae
638.R68     Rosauridae
638.S15     Saccopharyngidae
638.S18     Salangidae
638.S2      Salmonidae (Salmon; trout; whitefishes)
638.S3      Scaridae (Parrotfishes)
638.S32     Scatophagidae (Scats)
638.S334    Schilbeidae
638.S335    Schindleriidae
638.S34     Sciaenidae (Drums)
638.S347    Scomberesocidae (Sauries)
638.S35     Scombridae (Tuna; mackerel)
Scopelarchidae (Pearleys)
Scopelosauridae see QL638.N5873
638.S38     Scophthalmidae
638.S42     Scorpaenidae (Scorpionfishes)
638.S45     Scytalinidae (Graveldivers)
Scopelarchidae (Pearleys)
see QL638.P63
638.S48     Serranidae (Sea basses)

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Chordates. Vertebrates
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Osteichthys (Bony fishes). By family, A-Z -- Continued

(638.S483) Serrasalmidae
see QL638.C5

638.S485 Serrivomeridae
638.S5 Siganidae
638.S54 Sillaginidae
638.S6 Siluridae (Old World catfishes)
638.S64 Simenchelyidae
638.S68 Sisoridae
638.S7 Soleidae (Soles)
638.S73 Solenostomidae
638.S74 Sparidae (Porgies)
638.S77 Sphyraenidae (Barracudas)
638.S785 Stegastesidae
638.S8 Sternopygidae (Glass knifefishes)
638.S84 Stichaeidae (Pricklebacks)
638.S86 Stomiidae
638.S87 Stromateidae (Butterfishes)
638.S88 Stylephoridae (Tube-eyes)
Synancejidae see QL638.S42

638.S892 Synaphobranchidae
638.S893 Synbranchidae
638.S9 Syngnathidae (Pipefishes; seahorses)
638.S96 Synodontidae (Lizardfishes)
638.T27 Teraponidae
Tetragonopteridae see QL638.C5

638.T3 Tetragonuridae
638.T32 Tetraodontidae (Puffers)
Theraponidae see QL638.T27
Thunnidae see QL638.S35

638.T55 Togidae
638.T6 Toxotidae
638.T68 Trachichthyidae
638.T685 Trachinidae
638.T69 Trachipteridae (Ribbonfishes)
638.T695 Triacanthidae (Spikefishes)
638.T7 Trichiuridae (Cutlassfishes)
638.T73 Trichodontidae (Sandfishes)
638.T76 Trichomycteridae
638.T78 Trichonotidae
638.T8 Trigidae (Searobins)
638.T85 Triodontidae
638.T87 Tripterygiidae
Chordates. Vertebrates
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Osteichthys (Bony fishes). By family, A-Z -- Continued

- 638.T95  Trypauchenidae
- 638.U5   Umbridae (Mudminnows)
- 638.U7   Uranoscopidae (Stargazers)
- 638.V4   Veliferidae
- 638.X4   Xenocephalidae
- 638.X45  Xenocongridae (False morays)
- 638.X5   Xiphiidae (Swordfishes)
- 638.Z28  Zanclidae (Moorish idol)
- 638.Z3   Zaniolepididae
- 638.Z36  Zaproridae (Prowfishes)
- 638.Z4   Zeidae (Dories)
- 638.Z6   Zoarcidae (Eelpouts)

Agnatha (Jawless fishes)

- 638.12  General works
  - Myxini
- 638.13  General works
  - Myxiniformes (Hagfishes)
- 638.14  General works
- 638.15.A-Z  By family, A-Z
  - (638.15.B35)  Bdellostomatidae
    - see QL638.15.M9
- 638.15.M9  Myxinidae
  - (638.15.P37)  Paramyxinidae
    - see QL638.15.M9

Cephalaspidomorophi

- 638.18  General works
  - Petromyzontiformes (Lampreys)
- 638.2   General works
- 638.25.A-Z  By family, A-Z
  - 638.25.G45  Geotriidae
- 638.25.P48  Petromyzontidae
- 638.3   Dipnoid fishes
  - Class here general works only
  - For specific fishes see QL637.9+
- 638.5   Ganoid fishes
  - Class here general works only
  - For specific fishes see QL637.9+

Chondrichthyes (Cartilaginous fishes)

- 638.6   General works
  - Chimaeriformes
- 638.7   General works
- 638.75.A-Z  By family, A-Z
- 638.75.C4  Chimaeridae (Chimaeras)
Chordates. Vertebrates
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Chondrichthyes (Cartilaginous fishes) -- Continued
Pristiformes (Sawfishes)

638.77  General works
638.78.A-Z  By family, A-Z
638.78.P75  Pristidae

Rajiformes (Rays)

638.8  General works
638.85.A-Z  By family, A-Z
638.85.A5  Anacanthuratidae
638.85.A7  Arhynchobatidae
638.85.D3  Dasyatidae (Stingrays)
638.85.G9  Gymnuridae
638.85.H48  Hexatrygonidae (Sixgill stingrays)
638.85.M6  Mobulidae (Manta rays)
638.85.M9  Myliobatidae (Eagle rays)
638.85.P6  Potamotrygonidae (Freshwater stingrays)
(638.85.P7)  Pristidae (Sawfishes)
             see QL638.78.P75
638.85.R3  Rajidae (Skates)
638.85.R4  Rhinobatidae (Guitarfishes)
             Rhinopteridae see QL638.85.M9
638.85.R48  Rhynchobatidae
(638.85.T6)  Torpedinidae
             see QL638.875.T6
             Urolophidae see QL638.85.D3

Torpediniformes (Electric rays)

638.87  General works
638.875.A-Z  By family, A-Z
638.875.T6  Torpedinidae (Torpedo electric rays)

Sharks

638.9  General works
638.93  Shark attacks. Shark repellents
Systematic divisions

638.94.A-Z  By order, A-Z
            Class species, genera, and families in QL638.95
            Class single-family orders with the family in
            QL638.95
638.94.C37  Carcharhiniformes (Ground sharks)
            Heterodontiformes see QL638.95.H4
638.94.H49  Hexanchiformes
638.94.L36  Lamniformes
638.94.O74  Orectolobiformes (Carpet sharks)
            Pristiophoriformes see QL638.95.P7
638.94.S75  Squaliformes

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Chordates. Vertebrates
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Systematic divisions
Chondrichthyes (Cartilaginous fishes)
Sharks
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By order, A-Z
Squatiniformes see QL638.95.S88
638.95.A-Z
By family, A-Z
638.95.A4
  Alopiidae (Thresher sharks)
638.95.C3
  Carcharhinidae (Requiem sharks)
  Carchariidae see QL638.95.O3
638.95.C36
  Centrophoridae (Gulper sharks)
638.95.C37
  Cetorhinidae (Basking shark)
638.95.C4
  Chlamydoselachidae (Frilled sharks)
638.95.D3
  Dalatidae (Kitefin sharks; sleeper sharks)
  Echniorhinidae see QL638.95.S84
638.95.E85
  Etmopteridae (Lantern sharks)
638.95.G55
  Ginglymostomatidae (Nurse sharks)
638.95.H4
  Heterodontidae (Bullhead sharks)
638.95.H48
  Hexanchidae (Cow sharks)
  Isuridae see QL638.95.L3
638.95.L3
  Lamnidae (Mackerel sharks)
638.95.M44
  Megachasmidae (Megamouth shark)
638.95.M58
  Mitsukurinidae (Goblin shark)
638.95.O3
  Odontaspididae (Sand tigers)
638.95.O7
  Orectolobidae (Wobbegongs)
638.95.P7
  Pristiophoridae (Saw sharks)
638.95.P8
  Pseudotriakidae (False cat shark)
638.95.R4
  Rhincodontidae (Whale shark)
638.95.S3
  Scapanorhynichidae
638.95.S38
  Scyliorinidae (Cat sharks)
  Somniosidae see QL638.95.D3
638.95.S7
  Sphyrnidae (Hammerhead sharks)
638.95.S84
  Squalidae (Dogfish sharks)
638.95.S88
  Squatinidae (Angel sharks)
638.95.S92
  Stegostomatidae (Zebra shark)
638.95.T75
  Triakidae (Houndsharks)
638.97
  Immunology
638.99
  Genetics
639
  Anatomy and morphology
639.1
  Physiology
    Including electrophysiology and electric fishes
    For effects of pollution, disease, etc. see SH171+
639.15
  Age determination. Age/growth calculations. Length/weight relationships
    For particular groups or species see QL637.9+
Chordates. Vertebrates
Fishes -- Continued

639.16 Racial analysis
639.2 Reproduction and spawning
   Cf. SH155.6 Artificial spawning
   Cf. SH155.7 Induced spawning
639.25 Development. Eggs and larvae
639.3 Behavior
639.4 Locomotion
639.5 Migration. Diadromy
   Cf. SH156.8 Fish tagging
639.6 Vertical distribution
   Including diel vertical migration
639.8 Ecology
   Parasites see SH175

Reptiles and amphibians
640 Periodicals, societies, congresses, serial publications
640.5 Collected works (nonserial)
640.7 Dictionaries and encyclopedias
641 General works, treatises, and textbooks
643 Pictorial works and atlases
644 Popular works
644.2 Juvenile works
   Rare and endangered species
   General works
644.73.A-Z By region or country, A-Z
644.8 Extinct reptiles and/or amphibians
   General works
644.83.A-Z By region or country, A-Z
645 Classification. Nomenclature
645.2 Catalogs and collections
   Evolution
645.3 General works
645.4 Speciation
645.5 Variation
   Study and teaching. Research
      Including census taking, banding, marking, tagging, etc., and
      general works on amphibian and reptile watching and
      viewing sites
645.6 General works
645.63.A-Z By region or country, A-Z
645.65 Collection and preservation
645.7 Dangerous reptiles
Chordates. Vertebrates
Reptiles and amphibians -- Continued

Geographical distribution
Class here works on the reptiles and/or amphibians of a specific region
For geographical distribution of systematic divisions see QL666.A+

648 General works
North America
651 General works
United States
652 General works
653.A-Z By region or state, A-Z
Canada
654 General works
654.2.A-Z By region, province, or territory, A-Z
Latin America
654.5 General works
655 Mexico
Including Yucatán Peninsula
656 Central America (Table Q3)
656.5 West Indies (Table Q3)
657 South America (Table Q3)
658 Europe (Table Q3)
661 Asia (Table Q3)
662 Africa (Table Q3)
663 Australia
663.5 New Zealand
664 Pacific islands (Table Q3)
664.2 Arctic regions
664.4 Antarctica
664.6 Tropics

Systematic divisions
Reptiles
665 General works, treatises, and textbooks
Juvenile works see QL644.2
Physiographic divisions
Aquatic reptiles. Water reptiles
665.3 General works
665.5 Marine reptiles. Sea reptiles
Geographical distribution see QL648+
666.A-Z By order and family, A-Z
Amphisbaenia see QL666.L192+
Chelonia (Testudinata; turtles)
666.C5 General works
666.C52 Carettochelyidae (Pitted-shell turtles)
666.C535 Chelidae
Chordates. Vertebrates
Reptiles and amphibians
Systematic divisions
Reptiles

By order and family, A-Z

Chelonia (Testudinata; turtles) -- Continued

666.C536                      Cheloniidae
666.C539                      Chelydridae
666.C54                      Dermatemydidae
666.C546                      Dermochelyidae (Leatherback turtle)
666.C547                      Emydidae (Box turtles)
666.C55                      Kinosternide
666.C57                      Pelomedusidae
666.C584                      Testudinidae (Tortoises)
666.C587                      Trionychidae (Softshell turtles)

Crocodylia (Crocodilians)

666.C9                      General works
666.C925                      Crocodylidae (Alligators; crocodiles; caimans; gavial)

(666.C94)                      Gavialidae
see QL666.C925

Squamata

666.L19                      General works
666.L192                     General works
666.L193                     Amphisbaenidae
666.L194                     Bipedidae

Lacertilia (Sauria; lizards)

666.L2                      General works
(666.L21-.L2196)                      Geographical distribution
see QL648+

666.L223                     Agamidae
666.L225                     Anelytropsidae
666.L2254                    Anguidae (Glass lizards)
666.L2256                    Anniellidae
666.L23                     Chamaeleontidae (Chameleons)
666.L234                     Cordylidae (Girdle-tailed lizards)
666.L236                     Corytophanidae
666.L237                     Crotaphytidae
666.L238                     Dibamidae
666.L24                     Eublepharidae
666.L243                     Feylinidae
666.L245                     Gekkonidae (Geckos)
666.L247                     Helodermatidae (Gila monsters)
666.L248                     Hoplocercidae
666.L25                     Iguanidae
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By order and family, A-Z
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Lacertilia (Sauria; lizards) -- Continued

666.L255 Lacertidae
666.L2556 Lanthanotidae
666.L265 Opluridae
666.L267 Phrynosomatidae
666.L268 Polychrotidae
666.L27 Pygopodidae
666.L28 Scincidae (Skinks)
666.L285 Sphaerodactylidae see QL666.L245
666.L287 Tropiduridae
666.L29 Varanidae (Monitor lizards)
666.L293 Xantusiidae
666.L295 Xenosauridae

Serpentes (Ophidia; snakes)

666.O6 General works
666.O62 Acrochordidae (Wart snakes; file snakes)
666.O625 Aniliidae (False coral snakes; coral pipe snakes)
666.O626 Anomalepididae (Primitive blind snakes; dawn blind snakes)
666.O6265 Anomochilidae (Dwarf pipe snakes)
666.O627 Atractaspididae (Mole vipers)
666.O63 Boidae (Boas)
666.O633 Bolyeriidae (Round Island boas)
666.O636 Colubridae
666.O638 Crotalidae see QL666.O69
666.O64 Elapidae (Cobras; coral snakes; sea snakes)
666.O645 Hydrophiidae
666.O65 Leptotyphlopidae (Slender blind snakes)
666.O66 Loxocemidae (Mexican burrowing pythons)
666.O67 Pythonidae
666.O68 Tropidophiidae (Dwarf boas)
666.O685 Typhlopidae (Blind snakes)
666.O688 Uropeltidae (Shield-tailed snakes)
666.O69 Viperidae (Vipers and pit vipers)
666.O694 Xenopeltidae (Sunbeam snakes)

Rhynchocephalia

666.R4 General works
666.R48 Sphenodontidae (Tuatara)
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Squamata see QL666.L19+
Amphibians
667
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Juvenile works see QL644.2
Geographical distribution see QL648+
668.A-Z
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668.A6
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668.A63
Caeciliidae
668.A65
Ichthyophiidae
668.A67
Rhinatrematidae
668.A68
Scolecomorphidae
668.A69
Uraeotyphlidae
Caudata (Urodela; salamanders; newts)
668.C2
General works
668.C23
Ambystomatidae (Mole salamanders)
668.C237
Amphiumidae
668.C24
Cryptobranchidae (Giant salamanders)
668.C243
Dicamptodontidae
668.C25
Hynobiidae
668.C274
Plethodontidae (Lungless salamanders)
668.C277
Proteidae
668.C278
Rhyacotritonidae
668.C28
Salamandridae (Newts)
668.C285
Sirenidae
Ecaudata (Anura; Salientia; frogs; toads)
668.E2
General works
668.E214
Alytidae
668.E217
Ascaphidae (Tailed frogs)
(668.E22)
Atelopodidae
see QL668.E227
668.E224
Bombinatoridae
668.E225
Brevicipitidae
668.E227
Bufonidae (Toads)
668.E23
Centrolenidae (Glass frogs)
668.E232
Ceratobatrachidae
668.E233
Dendrobatidae
668.E234
Dicroglossidae
(668.E235)
Discoglossidae
see QL668.E214
668.E237
Hemiphractidae
668.E24
Hylidae (Tree frogs)
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   Reptiles and amphibians
   Systematic divisions
   Amphibians
      By order and family, A-Z
      Ecaudata (Anura; Salientia; frogs; toads) -- Continued

668.E244   Hyperoliidae
668.E255   Leiopelmatidae
668.E257   Leptodactylidae (Robber frogs)
668.E259   Mantellidae
668.E26   Microhylidae (Narrow-mouthed toads)
668.E2615  Myobatrachidae
668.E262   Pelobatidae (Eurasian spadefoot toads)
668.E2626  Pelodryadidae
668.E263   Pelodytidae
668.E264   Phrynometridae
668.E265   Pipidae
668.E268   Pseudidae
668.E27   Ranidae (Frogs)
668.E274   Rhacophoridae
668.E275   Rhinophrynidae
668.E33   Scaphiopodidae (North American spadefoot toads)
668.5   Genetics
669   Anatomy and morphology
669.2   Physiology
669.25  Age determination. Life spans. Longevity
669.3   Reproduction
669.5   Behavior
669.8   Ecology

Birds
671   Periodicals, societies, congresses, serial publications
672   Collected works (nonserial)
672.2  Dictionaries and encyclopedias
672.5  Communication of ornithological information
   Ornithological literature
672.6  Language. Authorship
History
672.7  General works
672.73.A-Z  By region or country, A-Z
673   General works, treatises, and textbooks
674   Pictorial works and atlases
674.4  Ornithological illustration
675   Birds' eggs and nests
676   Popular works
676.2  Juvenile works
Chordates. Vertebrates
Birds -- Continued

Bird protection. Bird refuges. Important bird areas. Bird attracting
Including birdhouses, bird feeders, birdcall whistles, and gardening to attract birds
Cf. SK351+ Wildlife management. Game protection

676.5 General works
By region or country
United States

676.55 General works
676.56.A-Z By region or state, A-Z
676.57.A-Z Other regions or countries, A-Z

676.7 Rare and endangered species
For local see QL676.55+

676.8 Extinct birds
677 Classification. Nomenclature
677.2 Catalogs and collections
677.3 Evolution
677.4 Population dynamics
For mortality see QL698.25

677.5 Study and teaching. Research
Including census taking, bird banding, and general works on bird watching and birding sites

677.7 Collection and preservation
677.75 Dangerous birds
677.78 Birds of prey. Raptors
Cf. QL696.F3+ Falconiformes
Cf. QL696.S8+ Strigiformes

677.79.A-Z Other types of birds, A-Z
677.79.C38 Cavity-nesting birds
677.79.E85 Exotic birds
677.79.F55 Flightless birds
677.79.F67 Forest birds
Game birds
see SF508+ Animal culture; SK311+ Hunting
677.79.G73 Grassland birds
677.79.I58 Introduced birds
677.79.N63 Nocturnal birds
Ornamental birds see SF512+
677.79.P37 Parasitic birds
677.79.P57 Piscivorous birds
Talking birds see SF462.8
Water birds see QL678.5+

677.8 Aviaries. Bird exhibitions
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Geographical distribution
For geographical distribution of systematic divisions
see QL696.A+

678
General works
Physiographic divisions
For birds of a particular region or country or off the coast of
a particular region or country see QL680+

Aquatic birds. Water birds
Including shore birds
For waterfowl see SF510.W3 Animal culture; SK331+
Hunting

678.5
General works
Marine birds. Sea birds
678.52
General works
By region
678.55
Atlantic Ocean
678.6
Indian Ocean
678.65
Pacific Ocean

Topographical divisions
679
Zone divisions
e.g. Palaearctic region

America
680
General works
North America and United States
681
General works
United States
682
General works
683.A-Z
By region, A-Z
684.A-.W
By state, A-W
Canada
685
General works
685.5.A-Z
By region or province, A-Z

Latin America
685.7
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686
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687
Central America (Table Q3)
688
West Indies (Table Q3)
689
South America (Table Q3)

Europe (Table Q3)
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Asia (Table Q3)
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691.5
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692
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692.8
General works
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Australia -- Continued

General works

By state, territory, or region, A-Z

New Zealand

Pacific islands (Table Q3)

Atlantic islands (Table Q3)

Indian Ocean islands (Table Q3)

Arctic regions

Antarctica

Tropics

Systematic divisions. By order and family, A-Z

Accipitriformes see QL696.F3+

Alciformes see QL696.C4+

Anseriformes

General works

Anatidae (Ducks; geese; swans)

Anhimidae (Screamers)

Apodiformes

General works

Apodidae (Swifts)

Hemiprocnidae (Crested swifts)

Trochilidae (Hummingbirds)

Apterygiformes

General works

Apterygidae (Kiwis)

Ardeiformes see QL696.C5+

Caprimulgiformes

General works

Aegothelidae (Owlet frogmouths)

Caprimulgidae (Goatsuckers)

Nyctibiidae (Potoos)

Podargidae (Frogmouths)

Steatornithidae (Oilbirds)

Casuariiformes

General works

Casuariidae (Cassowaries)

Dromiceidae (Emus)

Charadriiformes

General works

Alcidae (Auks; auklets; murrets)

Burhinidae (Thick-knees)

Charadriidae (Plovers; turnstones; surfbirds)

Chionididae (Sheathbills)
Chordates. Vertebrates

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Systematic divisions. By order and family, A-Z

Charadriiformes -- Continued

696.C44    Dromadidae (Crabplovers)
696.C448    Glaeolidae (Pratincoles; coursers)
696.C452    Haematopodidae (Oystercatchers)
696.C457    Jacanidae (Jacanas)
696.C46    Laridae (Gulls; terns; skuas; jaegers)
696.C465    Pedionomidae
(696.C47)    Phalaropodidae (Phalaropes)

see QL696.C48

696.C473    Recurvirostridae (Avocets; stilts)
696.C477    Rostratulidae (Painted snipes)
696.C479    Rynchopidae (Skimmers)
696.C48    Scolopacidae (Snipes; woodcocks; sandpipers; phalaropes)

(696.C488)    Stercorariidae

see QL696.C48

696.C49    Thinocoridae (Seedsnipes)

Ciconiiformes

696.C5    General works
696.C52    Ardeidae (Herons; bitterns)
696.C525    Balaenicipitidae (Shoebill)
696.C53    Cathartidae (New World vultures)
696.C535    Ciconiidae (Storks; jabirus)
696.C536    Cochleariidae (Boatbilled herons)
696.C56    Phoenicopteridae (Flamingos)
696.C58    Scopidae (Hammerheads)
696.C585    Threskiornithidae (Ibis; spoonbills)

Coccycges see QL696.C8+

Coliiformes

696.C59    General works
696.C593    Coliidae (Colies)

Columbiformes

696.C6    General works
696.C63    Columbidae (Pigeons; doves)
696.C66    Pteroclidae (Sandgrouses)
696.C67    Raphidae (Dodos; solitaires)

Coraciiformes

696.C7    General works
696.C72    Alcedinidae (Kingfishers)
696.C725    Brachypteraciidae (Groundrollers)
696.C729    Bucerotidae (Hornbills)
696.C73    Coraciidae (Rollers)
696.C74    Leptosomatidae (Cuckoo rollers)
696.C754    Meropidae (Bee-eaters)
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Systematic divisions. By order and family, A-Z
Coraciiformes -- Continued
696.C756
Momotidae (Motmots)
(696.C77)
Phoeniculidae (Wood hoopoes)
see QL696.U66
696.C78
Todidae (Todies)
(696.C79)
Upupidae (Hoopoes)
see QL696.U68
Cuculiformes
696.C8
General works
696.C83
Cuculidae (Cuckoos; roadrunners; anis)
696.C85
Musophagidae (Plaintain-eaters; touracos)
Cypseliformes see QL696.A55+
Falconiformes
696.F3
General works
696.F32
Accipitridae (Hawks; Old World vultures; harriers)
Including vultures (General)
(696.F33)
Cathartidae (New World vultures)
see QL696.C53
696.F34
Falconidae (Falcons; caracaras)
696.F36
Pandionidae (Ospreys)
696.F38
Sagittariidae (Secretarybirds)
Galliformes
696.G2
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696.G23
Cracidae (Curassows; guans; chachalacas)
696.G25
Megapodiidae (Megapodes)
(696.G254)
Meleagrididae (Turkeys)
see QL696.G27
696.G258
Numididae (Guineafowl)
696.G259
Odontophoridae (New World quails)
696.G26
Opisthocomidae (Hoatzins)
696.G27
Phasianidae (Pheasants, Old World quails, grouse, partridges, peafowls, turkeys)
(696.G285)
Tetraonidae (Grouse)
see QL696.G27
Gaviiformes
696.G3
General works
696.G33
Gaviidae (Loons)
Gruiformes
696.G8
General works
696.G82
Aramidae (Limpkins)
696.G827
Cariamidae (Seriemas)
696.G83
Eurypgidae (Sunbitterns)
696.G84
Gruidae (Cranes)
696.G845
Heliornithidae (Sungrebes)
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   Birds
   Systematic divisions. By order and family, A-Z
   Gruiformes -- Continued
   696.G85  Mesitornithidae (Roatelos)
   696.G86  Otididae (Bustards)
            Pedionomidae see QL696.C465
   696.G874  Psophiidae (Trumpeters)
   696.G876  Rallidae (Rails; coots)
   696.G878  Rhynochetidae (Kagus)
   696.G89  Turnicidae (Bustardquails)
   Halcyones see QL696.C72
   Lariformes see QL696.C46
   Limicoles see QL696.C4+
   Meropidae see QL696.C754
   Musophagiformes see QL696.C85
   Passeriformes
   696.P2  General works
   696.P212  Acanthisittidae (New Zealand wrens)
   696.P213  Acanthizidae (Australasian warblers)
   696.P2133  Acrocephalidae (Reed warblers and allies)
   696.P2135  Aegithalidae (Long-tailed tits; bushtits)
            Aegithinidae see QL696.P2344
   696.P214  Alaudidae (Larks)
   696.P216  Artamidae (Woodswallows; currawongs; Australian
            butcherbirds)
   696.P218  Atrichornithidae (Scrubbirds)
   696.P22  Bombycillidae (Waxwings)
   696.P224  Callaeidae (Wattled crows; huias; saddlebacks)
   696.P225  Campephagidae (Cuckoo shrikes)
   696.P228  Catamblyrhynchidae (Plushcapped finches)
   696.P23  Certhiidae (Creepers)
   696.P234  Chamaeidae (Wrentits)
   696.P2344  Chloropseidae (Leafbirds)
   696.P235  Cinclidae (Dippers)
   696.P2354  Climacteridae (Australasian treecreepers)
   696.P236  Coerebidae (Honeycreepers)
   696.P2365  Conopophagidae (Antpipits)
   696.P2367  Corvidae (Crows; magpies; jays)
   696.P2368  Cotingidae (Cotingas)
            (696.P237)  Cracticidae
            see QL696.P216
   696.P239  Cyclarhidae (Peppershrikes)
   696.P24  Dendrocolaptidae (Woodhewers)
   696.P242  Dicaeidae (Flowerpeckers)
   696.P2427  Dicruridae (Drongos)
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(696.P243) Drepanididae (Hawaiian honeycreepers)
see QL696.P246
696.P2435 Dulidae (Palmchats)
696.P2438 Emberizidae (Buntings; American sparrows; wood
warblers)
696.P2439 Eopsaltriidae (Australian robins)
696.P244 Estrildidae (Waxbills)
696.P245 Eurylaimidae (Broadbills)
696.P2455 Formicariidae (Ant thrushes)
696.P246 Fringillidae (Finches; Hawaiian honeycreepers)
696.P2464 Furnariidae (Ovenbirds)
696.P2468 Grallinidae (Magpie larks)
696.P247 Hirundinidae (Swallows)
696.P2477 Hyposittidae (Caralbilled nuthatches)
696.P2475 Icteridae (Blackbirds; troupials)
Irenidae see QL696.P2585
696.P248 Laniidae (Shrikes)
696.P2485 Maluridae (Australian wrens)
696.P249 Meliphagidae (Honeyeaters)
696.P2495 Menuridae (Lyrebirds)
696.P25 Mimidae (Thrashers; mockingbirds)
696.P252 Motacillidae (Wagtails; pipits)
696.P255 Muscicapidae (Old World flycatchers)
696.P257 Nectariniidae (Sunbirds)
696.P2585 Oriolidae (Old World flycatchers)
696.P259 Oxyruncidae (Sharpbills)
696.P2595 Pachycephalidae
696.P26 Paradisaeidae (Birds of paradise)
696.P2612 Paradoxornithidae (Parrotbills; suthoras)
696.P2615 Paridae (Titmice; chickadees)
(696.P2618) Parulidae
see QL696.P2438
696.P262 Passeridae
696.P2625 Philepittidae (Asities; false sunbirds)
696.P2629 Phytotomidae (Plantcutters)
696.P263 Pipridae (Manakins)
696.P2634 Pittidae (Pittas)
696.P264 Ploceidae (Weaverbirds)
696.P265 Prionopidae (Weaverbirds)
696.P266 Prunellidae (Accentors)
696.P267 Ptilogonatidae (Silky flycatchers)
696.P2675 Ptilonorhynchidae (Bowerbirds)
696.P268 Pycnonotidae (Bulbuls)
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Systematic divisions. By order and family, A-Z

Passeriformes -- Continued

696.P27  Regulidae (Kinglets)
696.P272  Remizidae
696.P273  Rhinocryptidae (Tapaculos)
696.P274  Rhipiduridae (Fantails)
696.P275  Sittidae (Nuthatches)
696.P278  Sturnidae (Starlings)
696.P279  Sylviidae (Old World warblers)
696.P28  Tersinidae (Swallow tanagers)
696.P2816  Thamnophilidae (Typical antbirds)
696.P282  Thraupidae (Tanagers)
696.P285  Timaliidae (Babblers)
696.P287  Troglodytidae (Wrens)
696.P288  Turdidae (Thrushes)
696.P289  Tyrannidae (Tyrant flycatchers)
696.P29  Vangidae (Vangas)
696.P294  Vireolaniidae (Shrike vireos)
696.P2945  Vireonidae (Vireos)
696.P296  Zeledoniidae (Wrenthrushes)
696.P298  Zosteropidae (White-eyes)

Pelecaniformes

696.P4  General works
696.P42  Anhingidae (Snake-birds)
696.P45  Fregatidae (Frigate birds)
696.P47  Pelecanidae (Pelicans)
696.P474  Phaethontidae (Tropicbirds)
696.P4745  Phalacrocoracidae (Cormorants)
696.P48  Sulidae (Boobies; gannets)

Phoenicopteriformes see QL696.C56

Piciformes

696.P5  General works
696.P52  Bucconidae (Puffbirds)
696.P53  Capitonidae (Barbets)
696.P54  Galbulidae (Jacamars)
696.P55  Indicatoridae (Honeyguides)
696.P56  Picidae (Woodpeckers)
696.P57  Ramphastidae (Toucans)

Podicipediformes

696.P58  General works
696.P586  Podicipedidae (Grebes)

Procellariformes

696.P6  General works
696.P63  Diomedeidae (Albatrosses)
696.P64  Hydrobatidae (Storm petrels)
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Systematic divisions. By order and family, A-Z

- Procellariformes -- Continued
  - 696.P66 Pelecanoididae (Diving petrels)
  - 696.P665 Procellariidae (Shearwaters; fulmars)
  - 696.P7 Psittaciformes (Parrots)
  - Puffinidae see QL696.P665
  - Pygopodes see QL696.P586
  - Pygopodes (Gaviidae) see QL696.G33
  - Rhamphastidae see QL696.P57

- Rheiformes
  - 696.R37 General works
  - 696.R4 Rheidae (Rheas)
  - Scansores
    - see QL671+

- Sphenisciformes
  - 696.S47 General works
  - 696.S473 Spheniscidae (Penguins)
  - Steganopodes see QL696.P4+

- Strigiformes
  - 696.S8 General works
  - 696.S83 Strigidae (Owls)
  - 696.S85 Tytonidae (Barn owls)

- Struthioniformes
  - 696.S87 General works
  - 696.S9 Struthionidae (Ostriches)

- Tinamiformes
  - 696.T37 General works
  - 696.T4 Tinamidae (Tinamous)
  - Trochili see QL696.A558

- Trogoniformes
  - 696.T67 General works
  - 696.T7 Trogonidae (Trogons)

- Upupiformes
  - 696.U6 General works
  - 696.U66 Phoeniculidae (Wood hoopoes)
  - 696.U68 Upupidae (Hoopoes)

- Genetics
  - Anatomy and morphology

- 697 General works
  - 697.4 Feathers. Plumage

- 698 Physiology
  - 698.2 Reproduction
  - 698.25 Mortality
  - 698.26 Effect of roads

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Chordates. Vertebrates
Birds -- Continued

698.3 Behavior
   Including social life and instinct
   Eggs and nests see QL675
   Bird banding see QL677.5

698.4 Food

698.5 Song. Vocalization

698.7 Flight

698.8 Navigation

698.85 Orientation

698.9 Migration

698.95 Ecology

699 Miscellany and curiosa
   For birds of the Bible see BS664

Mammals

700 Periodicals, societies, congresses, serial publications

701 Collected works (nonserial)

701.2 Dictionaries and encyclopedias
   Communication of information

701.5 General works

701.6 Information services

701.8 Computer network resources
   Including the Internet

702 Mammalogical literature

703 General works, treatises, and textbooks

704 Compends

705 Pictorial works and atlases

706 Popular works
   For popular works on domestic animals see SF41

706.2 Juvenile works

706.4 Study and teaching. Research

706.5.A-Z Special topics, A-Z

706.5.D38 Data processing
   Rare and endangered species

706.8 General works

706.83.A-Z By region or country, A-Z

707 Extinct mammals

708 Classification. Nomenclature

708.2 Catalogs and collections

708.4 Collection and preservation

708.5 Evolution. Speciation

708.6 Population dynamics
   Geographical distribution
   For geographical distribution of systematic divisions
   see QL737.A+

708.7 General works
Chordates. Vertebrates
Mammals
Geographical distribution -- Continued
Physiographic divisions
Aquatic
713       General works
          Marine
713.2     General works
          By region
          For marine mammals of a particular region or
country or off the coast of a particular region
or country see QL715+
          Atlantic Ocean
713.25    General works
713.28    North Atlantic Ocean
713.35    Pacific Ocean
Topographical divisions
North America
715       General works
          United States
717       General works
719.A-Z   By region or state, A-Z
          Canada
721       General works
721.5.A-Z By region or province, A-Z
Latin America
721.8     General works
722       Mexico
723       Central America (Table Q3)
724       West Indies (Table Q3)
725       South America (Table Q3)
Europe
726       General works
727       Great Britain
728.A-Z   Other regions or countries, A-Z
729       Asia (Table Q3)
731       Africa (Table Q3)
732       Indian Ocean islands (Table Q3)
          Australasia
732.8     General works
          Australia
733       General works
733.5.A-Z By state, territory, or region, A-Z
734       New Zealand
735       Pacific islands (Table Q3)
736       Arctic regions. Greenland
736.2     Antarctica
Chordates. Vertebrates
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Geographical distribution
- Topographical divisions -- Continued
  736.5  Tropics
    Afrosoricida. Tenrecomorpha
      General works
    737.A35  Chrysochloridae (Golden moles)
    737.A357  Tenrecidae (Tenrecs)
Carnivora
  737.C2  General works
    737.C214  Ailuridae (Red panda)
    737.C22  Canidae (Dogs)
      For domestic dogs see SF421+
    737.C23  Felidae (Cats)
      For domestic cats see SF441+
    737.C235  Herpestidae (Mongooses)
    737.C24  Hyaenidae (Hyenas)
    737.C248  Mephitidae (Skunks)
    737.C25  Mustelidae (Weasels; badgers; otters)
    737.C26  Procyonidae (Raccoons)
    737.C27  Ursidae (Bears; giant panda)
    737.C28  Viverridae (Civets, etc.)
Cetacea
  737.C4  General works
    Mysticeti (Baleen whales)
      General works
    737.C42  Balaenidae (Right whales)
    737.C423  Balaenopteridae (Rorquals)
    737.C424  Eschrichtiidae (Gray whales)
    737.C425  Neobalaenidae
    Odontoceti (Toothed whales)
      General works
    737.C43  Delphinidae (Dolphins)
      Iniidae see QL737.C436
      Lipotidae see QL737.C436
    737.C432  Monodontidae (Narwhal; white whale)
    737.C433  Phocoenidae (Porpoises)
    737.C434  Physeteridae (Sperm whales)
    737.C435  Platanistidae (River dolphins)
      Pontoporiidae see QL737.C436
      Stenidae see QL737.C432
    737.C436  Ziphiidae (Beaked whales)
Chiroptera
  737.C5  General works
  737.C513  Craseonycteridae
Chordates. Vertebrates
Mammals
Systematic divisions. By order and family, A-Z
Chiroptera -- Continued

737.C52          Desmodontidae (Vampires)
737.C525         Emballonuridae (Sac-winged bats)
737.C53          Furipteridae (Smoky bats)
737.C533         Hipposideridae (Old World leaf-nosed bats)
737.C535         Megadermatidae (False vampires)
737.C54          Molossidae (Free-tailed bats)
737.C543         Mormoopidae
737.C545         Mystacinidae (New Zealand short-tailed bats)
737.C55          Myzopodidae (Old World sucker-footed bats)
737.C555         Natalidae (Funnel-eared bats)
737.C56          Noctilionidae (Fisherman bats)
737.C565         Nycteridae (Slit-faced bats)
737.C57          Phyllostomidae (American leaf-nosed bats)
737.C575         Pteropodidae (Old World fruit bats)
737.C58          Rhinolophidae (Horseshoe bats)
737.C585         Rhinopomatidae (Mouse-tailed bats)
737.C59          Thyropteridae (Disk-winged bats)
737.C595         Vespertilionidae

Dermoptera

737.D35          General works
737.D4           Cynocephalidae (Flying lemurs)

Edentata. Xenarthra

737.E2           General works
737.E22          Bradypodidae (Three-toed tree sloths)
737.E23          Dasypodidae (Armadillos)
737.E238         Megalonychidae (Two-toed tree sloths)
737.E24          Myrmecophagidae (Anteaters)

Erinaceomorpha

737.E75          General works
737.E753         Erinaceidae (Hedgehogs)

Hyracoidea

737.H85          General works
737.H9           Procaviidae (Hyraxes)

Insectivora. Insectivores

737.I5           General works
(737.I52)        Chrysochloridae
                 see QL737.A352
(737.I53)        Erinaceidae
                 see QL737.E753
(737.I54)        Macroscelididae (Elephant shrews)
                 see QL737.M242
(737.I545)       Potamogalidae
                 QL737.S73
Chordates, Vertebrates
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Systematic divisions. By order and family, A-Z
Insectivora. Insectivores -- Continued

(737.I55) Solenodontidae
            see QL737.S74
(737.I56) Soricidae
            see QL737.S75
(737.I57) Talpidae
            see QL737.S76
(737.I58) Tenrecidae
            see QL737.A357

Lagomorpha
737.L3 General works
737.L32 Leporidae (Rabbits; hares)
737.L33 Ochotonidae (Pikas)

Macroscelidea
737.M24 General works
737.M242 Macroscelididae (Elephant shrews)

Marsupialia. Marsupials
737.M3 General works
Dasyuromorphia
737.M325 General works
737.M33 Dasyuridae (Marsupial mice, Marsupial cats)
737.M335 Myrmecobiidae (Numbat)
737.M336 Thylacinidae (Thylacine)

Didelphimorphia
737.M337 General works
737.M34 Didelphidae (American opossums)

Diprotodontia
737.M345 General works
737.M346 Acrobatidae
737.M347 Burramyidae (Pygmy possums)
737.M348 Hypsiprymnodontidae (Rat-kangaroos)
            Cf. QL737.M386 Potoroidae
737.M35 Macropodidae (Kangaroos, wallabies)
737.M373 Petauridae
737.M38 Phalangeridae (Phalangers)
737.M384 Phascolarctidae (Koalas)
737.M386 Potoroidae (Bettongs, potoroos, rat-kangaroos)
            Cf. QL737.M348 Hypsiprymnodontidae
737.M387 Pseudocheiridae
737.M3875 Tarsipedidae
737.M39 Vombatidae (Wombats)

Microbiotheria
737.M43 General works
737.M435 Microbiotheriidae
Chordates. Vertebrates
Mammals
Systematic divisions. By order and family, A-Z
Marsupialia -- Continued

Notoryctemorphia
737.M44                   General works
737.M445                  Notoryctidae (Marsupial moles)
Paucituberculata
737.M46                   General works
737.M463                  Caenolestidae (Rat opossums)
Peramelemorphia (Bandicoots)
737.M47                   General works
737.M475                  Peramelidae
(737.M476)                Peroryctidae
                   see QL737.M475
737.M478                  Thylacomyidae (Bilbies)

Monotremata
737.M7                   General works
737.M72                  Ornithorhynchidae (Platypus)
737.M73                  Tachyglossidae (Echidnas)

Pholidota
737.P4                   General works
737.P5                   Manidae (Pangolins)

Pinnipedia
737.P6                   General works
737.P62                  Odobenidae (Walrus)
737.P63                  Otariidae (Eared seals)
737.P64                  Phocidae (Seals)

Primates
737.P9                   General works
737.P915                 Atelidae (Howler monkeys; muriquis; spider monkeys, woolly monkeys)
(737.P917)                Callimiconidae
                   see QL737.P925
(737.P92)                Callitrichidae
                   see QL737.P925
737.P925                 Cebidae (Marmosets; tamarins; squirrel monkeys, capuchin monkeys)
737.P93                  Cercopithecidae (Old World monkeys)
737.P933                 Cheirogaleidae
737.P935                 Daubentoniidae (Aye-ayes)
737.P937                 Galagonidae (Galagos)
737.P94                  Hominidae (Great apes: chimpanzees; gorillas; orangutans)
                   For humans see GN49+
737.P943                 Hylobatidae (Lesser apes: gibbons; siamang)
737.P945                 Indridae
Chordates. Vertebrates
Mammals
Systematic divisions. By order and family, A-Z
Primates -- Continued

737.P95   Lemuridae (Large lemurs)
737.P955  Lorisidae (Lorises; pottos)
737.P957  Nyctipithecidae (Night monkeys)
737.P959  Pitheciidae (Sakis; titis; uakaris)
(737.P96)  Pongidae (Apes)
           see QL737.P94+
737.P965  Tarsiidae (Tarsiers)
(737.P968)  Tupaiidae (Tree shrews)
           see QL737.S254

Proboscidea

737.P97   General works
737.P98   Elephantidae (Elephants)

Rodentia

737.R6   General works
737.R62   Abrocomidae
737.R623  Agoutidae (Pacas)
737.R624  Anomaluridae (Scaly-tailed squirrels)
737.R626  Aplodontidae (Mountain beavers)
737.R628  Bathyergidae (African mole rats)
737.R63   Capromyidae (Hutias)
737.R632  Castoridae (Beavers)
737.R634  Caviidae (Cavies)
737.R636  Chinchillidae (Chinchillas)
(737.R638)  Cricetidae (New World rats and mice)
           see QL737.R666
737.R64   Ctenodactylidae (Gundis)
737.R642  Ctenomyidae (Tucu-tucos)
737.R644  Dasyproctidae (Agoutis; acouchis)
737.R646  Dinomysidae (Pacaranas)
737.R648  Dipodidae (Jerboas; birch mice; jumping mice)
737.R65   Echimyidae (Spiny rats)
737.R652  Erethizontidae (New World porcupines)
737.R654  Geomyidae (Pocket gophers)
737.R656  Gliridae (Dormice)
737.R66   Heteromyidae (Pocket mice; kangaroo rats)
737.R662  Hydrochaeridae (Capybara)
737.R664  Hystricidae (Old World porcupine)
737.R666  Muridae (Mice; rats; voles; lemmings; gerbils; hamsters)
737.R668  Myocastoridae (Coypu; nutria)
737.R67   Octodontidae
737.R672  Pedetidae (Springhares)
737.R674  Petromuridae
Chordates. Vertebrates  
Mammals  
Systematic divisions. By order and family, A-Z  
Rodentia -- Continued

(737.R676)  
Platacanthomyidae  
see QL737.R666

(737.R678)  
Rhizomyidae  
see QL737.R666

737.R68  
Sciuridae (Squirrels)

737.R682  
Seleminiidae (Desert dormice)

737.R684  
Spalacidae  
see QL737.R666

737.R686  
Thryonomyidae (Cane rats)

(737.R688)  
Zapodidae  
see QL737.R648

Scandentia

737.S25  
General works

737.S254  
Tupaiidae (Tree shrews)

Sirenia

737.S6  
General works

737.S62  
Dugongidae (Dugongs)

737.S63  
Trichechidae (Manatees)

Soricomorpha

737.S7  
General works

737.S73  
Potamogalidae (Water shrews)

737.S74  
Solenodontidae (Solenodons)

737.S75  
Soricidae (Shrews)

737.S76  
Talpidae (Moles)

Tubulidentata

737.T75  
General works

737.T8  
Orycteropodidae (Aardvarks)

Ungulata

737.U4  
General works

Artiodactyla (Even-toed ungulates)

737.U5  
General works

737.U52  
Antilocapridae (Pronghorn)

737.U53  
Bovidae

For domestic cattle, sheep, and goats see SF1+

737.U54  
Camelidae (Camels)

737.U55  
Cervidae (Deer)

737.U56  
Giraffidae

737.U57  
Hippopotamiidae (Hippopotami)

737.U575  
Moschidae (Musk deer)

737.U58  
Suidae (Old World pigs)

For domestic swine see SF391+

737.U59  
Tayassuidae (Peccaries)

737.U595  
Tragulidae (Chevrotains)
Chordates. Vertebrates
Mammals
Systematic divisions. By order and family, A-Z
Ungulata -- Continued
Perissodactyla (Odd-toed ungulates)
737.U6    General works
737.U62   Equidae (Horses)
           For domestic horses see SF277+
737.U63   Rhinocerotidae (Rhinoceroses)
737.U64   Tapiridae (Tapirs)
Xenarthra see QL737.E2+
738    Miscellany and curiosa
738.5    Genetics
739    Anatomy and morphology
           For anatomy of domestic animals see SF761+
           Cf. QL801+ Comparative anatomy
739.15   Cytology
Physiology
           For physiology of domestic animals see SF768+
           Cf. QP1+ Animal physiology
739.2    General works
739.23   Reproduction
739.25   Age determination
Behavior
739.3    General works
739.5    Migration
739.8    Ecology
Animal behavior
           Class here general works on animal behavior and general works
           on particular types of animal behavior
           For works on the behavior of special groups or individual animals,
           see QL360+
           For comparative psychology and behavior of animals and
           humans see BF660+
           For works on the behavior of special groups of domestic
           animals or individual domestic animals see SF756.7
750    Periodicals, societies, congresses, serial publications
750.3    Dictionaries and encyclopedias
750.5    History
751    General works, treatises, and textbooks
           Cf. QH540+ General and animal ecology
           Cf. SF1+ Animal culture
751.5    Juvenile works
751.6    Addresses, essays, lectures
751.65.A-Z    Special aspects of the subject as a whole, A-Z
751.65.D37   Data processing
751.65.M3    Mathematical models

511
Animal behavior
Special aspects of the subject as a whole, A-Z -- Continued

751.65.M32  Mathematics
751.65.S55  Simulation methods
751.65.S73  Statistical methods
751.7  Laboratory manuals

Special topics
Behavioral endocrinology. Endocrine aspects of animal behavior see QP356.45

752  Animal populations
For population studies of a particular group of animals, see systematic sections
Cf. QL607.6 Vertebrate population dynamics
Cf. QL618.3 Fish population dynamics
Cf. QL677.4 Bird population dynamics

Periodicity. Seasonal habits

753  General works
754  Migration. Migratory animals
Cf. QL496.2 Migration of insects
Cf. QL639.5 Migration of fishes
Cf. QL698.9 Migration of birds
Cf. QL739.3 Migration of mammals

755  Hibernation
Sleep behavior
755.3  General works
755.5  Nocturnal animals

Habitations
756  General works
756.15  Burrowing. Burrowing animals
756.2  Territoriality
Food
756.5  General works
756.55  Bloodsucking animals
756.56  Browsing
756.57  Cannibalism
756.6  Health behavior. Medicinal use
756.7  Drug use
756.8  Symbiosis
757  Parasitology
Cf. QL392.A1+ Helminthology
Cf. QL496.12 Parasitic insects and parasitoids
Cf. RC119+ Parasitic diseases of man
Cf. SF810.A3+ Parasitic diseases of animals

758  Predation. Predatory animals
Cf. SF810.5+ Predator control
758.5  Aggression. Agonistic behavior
Cf. QL100.5 Animal attacks
Animal behavior
Special topics -- Continued

758.7  Reconciliation
759  Defense mechanisms
760  Grooming behavior
761  Sexual behavior
761.5  Familial behavior. Kin recognition
762  Parental behavior
762.5  Infanticide

Developmental behavior
  General works
763  Critical periods. Imprinting
763.5  Play behavior
765  Sound production. Vocalization
  Cf. QL496.5 Insect sounds
767  Color
768  Animal tracks and signs
  Including droppings
  Cf. SK282 Tracking
775  Social relations. Animal societies
  Cf. QL364.5 Coloniality
775.5  Altruistic behavior
776  Communication
780  Eliminative behavior
781  Instinct
781.3  Motivation
782  Navigation
  Cf. QL698.8 Navigation by birds
782.5  Orientation
783  Swarming

Psychology. Intelligence. Learning
  General works
785  Memory
  Cf. QP406 Physiology
785.24  Number concept
785.25  Consciousness
785.27  Emotions
785.3  Extrasensory perception
(785.5)  Special animals
  see QL362+ or SF (Domestic animals)

Stories and anecdotes
  For circus animals see GV1829+
  For animals in television see PN1992.8.A58
  For animals in motion pictures see PN1995.9.A5
  For domesticated animals see SF1+
  For wild animals as pets see SF459.A+

791  General works
Animal behavior
Stories and anecdotes -- Continued

793        Famous animals
795.A-Z    Special. By common name of animal, A-Z
795.A35    African wild dog
795.A4     Alligators
795.A6     Antelopes
795.A8     Asses, Wild
795.B2     Badgers
795.B3     Bats
795.B4     Bears
795.B5     Beavers
795.B53    Bees
795.B57    Birds
            Cf. SF460+ Cage birds
795.B6     Bison
    Black eagle see QL 795.B57
795.B8     Buffaloes
795.B85    Butterflies
    Canada goose see QL 795.B57
795.C2     Cats, Wild
            Cf. SF445.5 Stories about domestic cats
795.C3     Cattle, Wild
            Cf. SF197.4 Stories about domestic cattle
795.C5     Chamois
795.C54    Cheetahs
795.C57    Chimpanzees
795.C6     Coyotes
795.C65    Crabs
795.C67    Crocodiles
795.D3     Deer
795.D5     Dingoes
795.D6     Dogs
            Cf. SF426.2 Stories about domestic dogs
795.D7     Dolphins
    Ducks, Wild see QL 795.B57
795.E4     Elephants
795.E94    European wildcat
795.F65    Fireflies
795.F7     Fishes
795.F8     Foxes
795.F85    Frogs
795.G3     Gazelles
795.G5     Gibbons
795.G55    Giraffe
795.G7     Gorillas
795.H3     Hamsters
Animal behavior
Stories and anecdotes
Special. By common name of animal, A-Z -- Continued

795.H35  Hares
795.H4   Hedgehogs
795.H6   Hippopotami
795.H65  Hornets
795.H7   Horses, Wild
          Cf. SF301 Stories about domestic horses
795.J27  Jackals
795.J3   Jaguars
795.K3   Kangaroos
795.K62  Koalas
795.L5   Leopards
795.L7   Lions
795.L9   Lynxes
795.M3   Marmots
795.M37  Mice
795.M5   Minks
795.M57  Moles
795.M6   Mongooses
795.M7   Monkeys
795.M8   Moose
          Mules see SF362
795.M85  Musk-oxen
795.M87  Muskrats
795.O7   Orangutans
795.O8   Otters
795.P18  Pandas
795.P2   Panthers
795.P28  Peccaries
795.P6   Ponies, Wild see QL795.H7
795.P85  Porcupines
795.P85  Pumas
          Rabbits, Wild see QL795.H35
795.R15  Raccoons
795.R2   Rats
795.R4   Reindeer
795.R45  Rhinoceroses
795.R5   Ring-tailed phalangers
795.S3   Salamanders
          Sea otters see QL795.O8
795.S43  Seals
795.S46  Sharks
795.S47  Shrews
795.S55  Skunks
795.S6   Sloths
Animal behavior
Stories and anecdotes
Special. By common name of animal, A-Z -- Continued

795.S65  Snakes
795.S7   Squirrels
795.S9   Swine
795.T47  Thylacine
795.T5   Tigers
795.T8   Turtles
795.W4   Weasels
795.W5   Whales
795.W6   Wild boars
          Wild dog, African see QL795.A35
795.W8   Wolves
795.W83  Wombats
795.Z42  Zebras

Morphology
Class here general works on animal form, structure, body size, etc.
For particular animals, see QL363+

799  General works, treatises, and textbooks
799.3  Juvenile works
799.5  Study and teaching. Research

Anatomy
Here are classified general works on comparative anatomy and special works on the anatomy of individual organs.
For works on the general anatomy or the anatomy of specific organs of special groups of animals, see the preceding systematic divisions or SF Domestic animals.
For invertebrate anatomy see QL363
For human anatomy see QM1+

801  Periodicals, societies, congresses, serial publications
803  Collected works (nonserial)
803.3  Dictionaries
803.5  Nomenclature, terminology, notation, abbreviations
804  Early works through 1800
805  General works, treatises, and textbooks
806  Pictorial works and atlases
806.5  Juvenile works
807  Comparative histology
      For special tissues see QM559+
808  Addresses, essays, lectures
Study and teaching. Research

810  General works
810.5  Problems, exercises, examinations
811  Outlines, syllabi
      Laboratory manuals
Anatomy
Study and teaching. Research
Laboratory manuals -- Continued

812 General works
812.5 Dissection
813.A-Z By laboratory animal, A-Z
   For specific organs or parts of the body, see QL821+
813.C38 Cats
813.D64 Dogs
   Dogfish shark see QL813.F57
813.F57 Fishes
813.F75 Frogs
813.G63 Goats
813.G73 Grasshoppers
813.H35 Hamsters
813.M55 Mice
813.M56 Minks
   Perch see QL813.F57
813.P54 Pigs. Swine
813.R3 Rabbits
813.R37 Rats
   Sharks see QL813.F57
813.S69 Squids

Museums. Exhibitions
814.A1 General works
814.A2-Z By region or country, A-Z
   Subarrange each country by Table Q5

Skeleton. Osteology
For histology see QM569

821 General works
822 Skull
823 Catalogs of specimens
825 Articulations
827 Ligaments
831 Muscles
   For histology see QM571

Vascular system
835 Blood vessels
838 Heart
841 Lymphatics

Respiratory organs
845 General works
846 Branchiae (Gills)
847 Tracheae in Arthropoda
848 Lungs
849 Pleura
851 Diaphragm
Anatomy

Respiratory organs -- Continued

852    Respiratory passages
853    Larynx
854    Trachea. Bronchi
855    Air sacs, swimming bladders, etc.

Digestive organs

856    General works
857    Mouth
858    Teeth
861    Pharynx. Esophagus. Tonsils
862    Stomach
863    Intestines
863.5  Peritrophic membranes
864    Peritoneum. Mesentery and omentum

Glands

865    Salivary glands
866    Pancreas
867    Liver
868    Ductless glands

Urogenital system

871    General works
Excretory organs

872    General works
872.5  Nephridia
872.7  Wolffian body
873    Kidneys
873.5  Ducts
874    Bladder
875    Urethra

Reproductive organs. Copulatory organs

876    General works
878    Male
881    Female

Nervous system

For histology see QM575

921    Periodicals, societies, congresses, serial publications
923    Collected works (nonserial)
925    General works, treatises, and textbooks
927    Laboratory manuals. Neurological technique
931    Neural elements: Cells, fibers, supporting structures, etc.

Central nervous system. Brain

933    General works, treatises, and textbooks

Special types

935    Invertebrate
Anatomy

Nervous system

Central nervous system. Brain

Special types -- Continued

937 Vertebrate
938.A-Z Special structures, A-Z
938.A35 Afferent pathways
938.B73 Brain stem
938.C46 Cerebral cortex
938.C47 Cerebral ventricles
938.D44 Dentate nucleus
938.D53 Diencephalon
938.D65 Dorsal ventricular ridge
938.H56 Hippocampus
938.H94 Hypothalamus
938.L55 Limbic system
938.M4 Mechanoreceptors
938.M43 Medial geniculate body
938.N45 Neocortex
938.N48 Neural crest
938.O44 Olivary nucleus
938.P7 Prosencephalon
938.R53 Rhinencephalon
938.S6 Spinal cord
938.T45 Thalamus

939 Peripheral nervous system. Sympathetic nervous system
940 Animal weapons for defense and offense

Integument. Skin

941 General works
943 Skin glands. Odoriferous glands
944 Mammae

Sense organs

945 General works
945.5 Antennae
946 Tongue
947 Nose
948 Ear
949 Eye

Topographical and regional anatomy

950.1 General works, treatises, and textbooks
950.2 External form of the body

Trunk

950.3 General works
950.39 Buttocks
950.4 Neck
950.5 Head
Anatomy

Topographical and regional anatomy -- Continued

950.6
Tail
Limbs

950.7
General works

950.75
Flippers

950.8
Wings

950.9
Segmental anatomy

950.95
Body cavities

Embryology

For special organs see QL821+
For human embryology see QM601+

951
Periodicals, societies, congresses, serial publications

952
Nomenclature, terminology, notation, abbreviations

953
History

Biography

954
Collective

954.2.A-Z
Individual, A-Z

955
General works, treatises, and textbooks

Including general works on vertebrates or invertebrates

956
Pictorial works and atlases

956.5
Juvenile works

957
Laboratory manuals

Individual orders, genera, species, etc.

958
Invertebrate

959
Vertebrate

Special topics

961
Experimental embryology

962
Behavioral embryology

963
Chemical embryology

963.5
Cell differentiation

Cf. QH607+ Cytology

Germ cells

964
General works

965
Oogenesis and ovum

966
Spermatogenesis and spermatozoa

For fertilization see QP273

Development of the embryo

Including twins, multiple birth, etc.

971
General works

971.2
Organizer

973
Allantois. Placenta

975
Amnion. Amniotic fluid

977
Chorion

979
Myogenesis

979.5
Chondrogenesis

981
Metamorphosis
Embryology -- Continued
Teratology
Human anatomy
Class here only works that deal with human anatomy
For physical anthropology see GN49+
For comparative anatomy see QL801+
For works that include both human physiology and anatomy see QP1+

1 Periodicals, societies, congresses, serial publications
5 Collected works (nonserial)
7 Dictionaries and encyclopedias
Nomenclature, terminology, notation, abbreviations see QM81
11 History
Biography
16.A2 Collective
   e.g.
16.L4 Leonardo da Vinci
16.V5 Vesalius
17 Directories
21 Early works through 1800
   General works, treatises, and textbooks
   1801-1969
   1970-
24 Comparative anatomy of humans
   Cf. GN281+ Human evolution. Man's place in nature
24.5 Anatomy of the child
   Cf. RJ131+ Growth and development of children
25 Pictorial works and atlases
26 Popular works
27 Juvenile works
28 Special aspects of the subject as a whole
Study and teaching. Research
30 General works
31 Outlines, syllabi
32 Problems, exercises, examinations
33 Charts, manikins, etc.
By region or country
   United States
      General works
33.1
33.2.A-Z By region or state, A-Z
      Subarrange each state by Table Q7
33.3.A-Z Other regions or countries, A-Z
      Subarrange each country by Table Q7
Dissection
33.4 History
33.5 General works, treatises, and textbooks
34 Manuals of practical anatomy. Laboratory manuals
35 Outline guides
Dissection -- Continued

Laboratory technique

Laboratories

General works

By region or country, A-Z
Subarrange each country by Table Q6

Museums. Exhibitions

General works

By region or country, A-Z
Subarrange each country by Table Q5

Addresses, essays, lectures

Nomenclature, terminology, notation, abbreviations

Musculoskeletal system

Skeleton. Osteology
  Cf. RA1059 Forensic osteology

General works

Skull
  Cf. GN71+ Craniology

Vertebral column

Ribs and sternum

Hipbone and pelvis

Bones of the extremities

Articulations. Joints

General works

Ligaments

Articular cartilage

Muscles

General works

Of the head and neck

Of the trunk

Of the limbs

Tendons

Vascular system
  For works on the blood vessels of a particular organ or system, see the organ or system

General works

Heart. Pericardium

Arteries and veins

Lymphatics

Organs of respiration and voice

General works

Larynx
  Cf. QP306 Larynx physiology

Trachea. Bronchi

Lungs. Pleura

Diaphragm

Organs of digestion
Organs of digestion -- Continued

301       General works
306       Mouth
311       Teeth
325       Salivary glands
331       Pharynx. Esophagus. Tonsils
341       Stomach
345       Intestines
351       Liver
352       Gallbladder
353       Pancreas
367       Peritoneum. Mesentery and omentum

Glands
   Cf. QM325 Salivary glands
   Cf. QM351 Liver
   Cf. QM353 Pancreas

368       General works, treatises, and textbooks
371       Ductless glands
   Including spleen, thyroid, thymus, suprarenal, pineal, pituitary, carotid

Urinary and reproductive organs

401       General works
404       Kidneys
408       Ureters
411       Bladder
413       Urethra
416       Generative organs, Male
421       Generative organs, Female
431       Perineum

Nervous system
   For works on the innervation of a particular organ or system, see the organ or system

451       General works
455       Brain
465       Spinal cord
469       Meninges
471       Peripheral nervous system. Sympathetic nervous system.
   Cranial nerves, etc.

Integument

481       General works
484       External skin
485       Bursae mucosae
488       Hair. Nails
491       Skin glands
495       Mammas

Sense organs

501       General works
Sense organs -- Continued
  503       Tongue
  505       Nose
  507       Ear
  511       Eye

Regional anatomy
  Including surgical and topographical anatomy
  531       General works, treatises, and textbooks

Special regions
  535       Head and neck. Jaws
  540       General works
  541       Thorax
  543       Abdomen
  548       Limbs
            Upper. Arm and hand
  549       Lower. Leg and foot

Human and comparative histology
  Including microscopic anatomy and ultrastructure
  For general comparative histology see QL807
  550       Periodicals, societies, congresses, serial publications
  550.2     Dictionaries and encyclopedias

Biography
  550.5     Collective
  551       General works, treatises, and textbooks

Study and teaching. Research
  552       General works
  553       Outlines, syllabi
  554       Problems, exercises, examinations
  555       Laboratory manuals

Laboratory technique
  556       General works
  556.5.A-Z Special methods, A-Z
            Embedding, Plastic see QM556.5.P53
  556.5.F5  Fixation
  556.5.L9  Lyophilization
  556.5.P53 Plastic embedding
  557       Pictorial works and atlases

Special tissues
  559       Pigment
  561       Epithelium
            Cf. QP88.4 Physiology
  562       Endothelium
            Cf. QP88.45 Physiology
  563       Connective tissues
  565       Adipose tissues
Human and comparative histology
   Special tissues -- Continued
   567          Cartilaginous tissues
   569          Bony tissues
   Including bone marrow
   569.5          Hematopoietic system
   570          Blood vessels
   570.5          Heart
   570.7          Lympathics
   571          Muscular tissues
   575          Nerve tissues
   575.5          Blood-brain barrier
   576          Endocrine glands
   Generative organs
   577          General works
   577.4          Male
   577.8          Female

Human embryology
   601          General works, treatises, and textbooks
   602          Pictorial works and atlases
   603          Popular works
   608          Research. Experimentation
   611          Special topics (not A-Z)
   Teratology
      Cf. GT6730 Manners and customs
   690          Early works through 1800
   691          1801-
   695.A-Z          By region, system, or organ of the body, A-Z
      Class clinical aspects in R
   695.B36          Basicranium
   695.B7          Brain
   695.C37          Cardiovascular system
   695.E95          Extremities
   695.F32          Face
   695.G45          Generative organs
   695.N45          Nervous system
   695.P76          Prosencephalon
   695.U74          Urinary organs
   695.V55          Viscera
Physiology

For the physiology of special animals or groups of animals see the systematic divisions QL364+
Cf. GN221+ Physiological anthropology

1 Periodicals, societies, congresses, serial publications
6 Collected works (nonserial)
11 Dictionaries and encyclopedias
13 Nomenclature, terminology, notation, abbreviations
21 History

Biography
25 Collective
e.g.
26.H3 Harvey
26.P35 Pavlov

29 Early works through 1800

General works, treatises, and textbooks

31 1801-1969
31.2 1970-

33 Comparative physiology
33.5 Special aspects of the subject as a whole
33.6.A-Z Special topics, A-Z
33.6.C48 Chaotic processes
33.6.D38 Data processing
33.6.M36 Mathematical models

Human physiology
Including general works on human biology
General works, treatises, and advanced textbooks

34 Through 1969
34.5 1970-

35 Handbooks, manuals, etc.
36 School textbooks of physiology and hygiene
37 Juvenile works
38 Popular works

Study and teaching. Research
Cf. RA440+ Hygiene

39 General works
40 Problems, exercises, examinations
41 Outlines, syllabi

Experimental physiology
42 Elementary works
Including laboratory manuals
43 Advanced works
44 Laboratory manuals

Data processing see QP33.6.D38
45 Vivisection
Cf. HV4905+ Anti-vivisection
Study and teaching. Research -- Continued

47.A-Z
By region or country, A-Z
Laboratories

51
General works

53.A-Z
By region or country, A-Z
   Subarrange each country by Table Q6

54
Technique

55
Instruments and apparatus

71
Addresses, essays, lectures

77
Miscellany and curiosa

Phenomena of animal life (General)

81
General works

81.5
Sex differences

81.6
Sexual orientation. Homosexuality

Influence of the environment (General). Animal
eco-physiology. Physiological adaptation
   Cf. GF1+ Human ecology

82
General works

82.2.A-Z
Special topics, A-Z

82.2.A2
Acceleration

82.2.A3
Air pollution

82.2.A36
Allostasis

82.2.A4
Altitude

Anoxemia see QP177

Biomagnetism see QP82.2.M3

82.2.C5
Climate. Weather

   Cf. QP82.2.H8 Humidity
   Cf. QP82.2.T4 Temperature

82.2.C6
Cold

82.2.E4
Electrolytes

82.2.E43
Electromagnetic waves

82.2.G35
Gamma waves

82.2.G7
Gravity

82.2.H4
Heat

82.2.H44
Heavy metals

82.2.H45
Heavy particles

82.2.H8
Humidity

   Immersion in water see QP82.2.W35

82.2.I45
Infrasonic waves

82.2.I5
Ionized air

82.2.I53
Ionizing radiation

82.2.L3
Lasers

82.2.L5
Light

82.2.M3
Magnetism

82.2.M5
Microwaves

82.2.M54
Millimeter waves

82.2.N6
Noise
Phenomena of animal life (General)
Influence of the environment (General). Animal
ecophysiology. Physiological adaptation
Special topics, A-Z -- Continued

82.2.N64 Nonionizing radiation
82.2.P4 Pesticides
82.2.P6 Pollution
82.2.P7 Pressure
82.2.R3 Radiation
  Radiation, Ionizing see QP82.2.I53
  Radiation, Nonionizing see QP82.2.N64
  Radiation, Ultraviolet see QP82.2.U4
82.2.R33 Radio waves
82.2.S8 Stress (Physiology)
82.2.T4 Temperature
  Cf. QP82.2.C6 Cold
  Cf. QP82.2.H4 Heat
  Cf. QP135 Thermoregulation
  Traffic and wildlife see HE5620.W54
82.2.U37 Ultrasonic waves
82.2.U4 Ultraviolet rays
82.2.U45 Underwater physiology
  Cf. RC1015 Human underwater physiology
82.2.V5 Vibration
82.2.W35 Water immersion
82.2.W36 Water pollution
  Weather see QP82.2.C5
82.2.W4 Weightlessness
  Cf. RC1151.W44 Human space physiology
Developmental physiology
  Cf. QL971+ Animal fetal development
  Cf. RG600+ Human fetal development
  Cf. RJ131+ Children
  Cf. RJ140+ Adolescents
  Cf. RJ252 Infants
83.8 General works, treatises, and textbooks
84 Growth
84.4 Puberty
84.6 Chronobiology. Periodicity. Biorhythms
  For special applications, see the field, e.g. T55.3.B56 Industrial safety
85 Longevity. Prolongation of life
86 Aging. Senescence
  Cf. QH608 Cell aging
  Cf. RC580.P7 Progeria
  Cf. RC952+ Geriatrics
Developmental physiology -- Continued

87
Death
Cf. QH671 Cell death

Physiology of the tissues (General)
Including physical and chemical properties

88
General works

88.15 Adipose tissues. Brown adipose tissue
Cf. QM565 Histology

88.2 Bone

88.23 Connective tissues

88.3 Hair. Fur. Wool

88.4 Epithelium
Cf. QM561 Histology

88.45 Endothelium
Cf. QP88.45 Histology
Muscle see QP321+
Nerve see QP361+

88.5 Skin
Cf. QP220+ Skin secretions
Cf. QP369+ Skin nerves
Cf. QP372.9 Galvanic skin response
Cf. QP450+ Cutaneous senses

88.6 Teeth
Cf. QP149 Mastication

89 Transplantation
Cf. RD120.6+ Surgery

90 Rejuvenation

90.2 Regeneration

90.4 Homeostasis

90.5 Body fluids
For lymph see QP115
For secretions see QP190+
For cerebrospinal fluid see QP375

90.6 Osmoregulation

90.7 Acid-base equilibrium

Blood

91 General works

92 Formation. Hematopoiesis. Bone marrow
Composition and chemistry

93 General works
Coagulation
Including fibrin, fibrinogen, thrombin, prothrombin, thromboplastin

93.5 General works
93.7.A-Z Special factors, A-Z
93.7.A58 Antithrombins
93.7.P76 Protein C
Blood
Composition and chemistry
Coagulation
  Special factors, A-Z -- Continued
  93.7.T45
  Thrombomodulin
  93.7.V65
  Von Willebrand factor
Corpuscles and platelets
  94
  General works
  Leucocytes. White blood cells
    Cf. QR185.8.L48 Immunology
  95
  General works
  95.2
  Basophils
  95.3
  Eosinophils
    Cf. QR185.8.E58 Immunology
  95.4
  Granulocytes
    Cf. QR185.8.G73 Immunology
  95.5
  Lymphocytes
    Cf. QR185.8.L9 Immunology
  95.7
  Monocytes
  95.8
  Neutrophils
    Cf. QR185.8.N47 Immunology
Erythrocytes. Red blood cells
  96
  General works
  96.5
  Hemoglobin
    Cf. QP99.3.G55 Glycosylated hemoglobin
    Cf. RC641.7.H35 Hemoglobinopathy
  96.7
  Reticulocytes
Platelets
  Cf. QR185.8.P58 Immunology
  97
  General works
  97.5
  Megakaryocytes
  98
  Blood groups
  99
  Plasma and serum
  99.3.A-Z
  Special constituents, A-Z
  99.3.A4
  Albumins
  99.3.A45
  Alpha macroglobulins
  Antithrombins see QP93.7.A58
  99.3.A65
  Apolipoproteins
    Including individual apolipoproteins
  99.3.B5
  Blood sugar
  99.3.C3
  Carbon dioxide
  Fibrin and fibrinogen see QP93.5+
  99.3.G3
  Gases
    Cf. RB45.2 Examination of blood gases
  99.3.G55
  Glycosylated hemoglobin
  99.3.H3
  Haptoglobin
  99.3.H35
  Hematin

531
Blood
Special constituents, A-Z -- Continued

99.3.H37  Hematoblasts
99.3.H4   Hemocyanin
99.3.H45  Hemoerythrin
        Hemoglobin see QP96.5
99.3.H53  High density lipoproteins
99.3.L5   Lipids
99.3.L52  Lipoproteins
99.3.L68  Low density lipoproteins
99.3.O6   Oocytin
99.3.O9   Oxygen
99.3.P5   Pigments
        Platelet activating factor see QP752.P62
99.3.P7   Proteins
        Prothrombin see QP93.5+
        Thrombin and thromboplastin see QP93.5+
99.3.T72  Trace elements
99.5.A-Z  Other special, A-Z
99.5.A3   Agglutination
99.5.E5   Electrophoresis
99.5.H4   Hemolysis
99.5.S4   Sedimentation

Cardiovascular system. Circulation
101       General works, treatises, and textbooks
101.2     Periodicals, societies, congresses, serial publications
101.3     Collected works (nonserial)
101.4     History of discovery and ideas on circulation. Harvey
          see QP101
103       Juvenile works
104       Study and teaching. Research
Hemodynamics
        Including pressure, velocity, flow, viscosity, etc.
105       General works
105.15    Rheology
105.2     Measurement of pressure
105.4     Measurement of flow
Systemic system
106       General works
106.2     Arterial. Aorta
106.4     Venous
106.6     Microcirculation. Capillaries
Special systems
107       Pulmonary system
108       Coronary system
108.5.A-Z Other, A-Z
Cardiovascular system. Circulation
Special systems
Other, A-Z -- Continued
108.5.C4 Cerebral circulation
108.5.P45 Peripheral circulation
109 Vasomotor control. Baroreflexes
110.A-Z Other special topics, A-Z
110.A37 Adrenergic receptors
110.A7 Artificial circulation
110.B5 Blood volume
110.C64 Collateral circulation
110.G45 Gene expression
110.R3 Radiation effects
110.V34 Vascular endothelium
110.V37 Vascular muscle
110.V38 Vascular resistance

Heart
(111) General works
see QP111.4
111.2 Periodicals, societies, congresses, serial publications
111.3 Collected works (nonserial)
111.4 General works, treatises, and textbooks
111.5 Pictorial works and atlases
111.6 Juvenile works
Study and teaching. Research
112 General works
Research techniques
112.4 General works
112.5.A-Z Special, A-Z
112.5.A55 Animal models
112.5.C3 Cardiography
112.5.E4 Electrocardiography
112.5.E46 Electrophysiology
112.5.M33 Magnetocardiography
112.5.N83 Nuclear magnetic resonance
112.5.R6 Radiography
113 Cardiac dynamics
Including beat, rate, output, acceleration, rhythm
113.2 Myocardium
For specific myocardial characteristics see QP114.A+
113.4 Nervous control
113.6 Cardiovascular sound
114.A-Z Other special topics, A-Z
114.A32 Adaptation
114.A35 Aging
114.A67 Aortic valve
114.A75 Arrest, Cardiac
Heart

Other special topics, A-Z -- Continued
Cardiac arrest see QP114.A75
Cardiac membranes see QP114.M46

114.C37 Cardiogenic reflexes
114.C44 Cells
114.C5 Chemical effects
Cold see QP114.H94
114.C65 Conduction system
114.D5 Diastole
114.D54 Dilatation
114.E53 Endocardium
114.E9 Exercise effects
Heart cells see QP114.C44
Heart membranes see QP114.M46

114.H6 Hormone control
114.H94 Hypothermia. Cold
114.I8 Isolation. Survival
114.L94 Lymphatics
114.M43 Mechanical properties
114.M46 Membranes
114.M48 Metabolism
114.M65 Molecular biology
114.R3 Radiation effects
114.R43 Receptors
Reflexes, Cardiogenic see QP114.C37
114.R45 Regeneration

Lymph and lymphatic system
Cf. QP114.L94 Heart lymphatics

Cardiopulmonary system

119.A1 Periodicals, societies, congresses, serial publications
119.A4-Z General works, treatises, and textbooks
120.A-Z Special topics, A-Z
120.M39 Maximal oxygen uptake

Respiration. Respiratory organs
Cf. QP177 Oxygen and metabolism
Cf. RA782 Breathing and exercises

121.A1 Periodicals, societies, congresses, serial publications
121.A4-Z General works, treatises, and textbooks
123 Regulation of respiration
123.5 Cough
123.8 Sneezing
124 Pulmonary gas exchange
125 Trachea
135 Thermoregulation. Animal heat. Body temperature
Cf. QP82.2.T4 Ambient temperature
136 Appetite
Hunger and thirst
  Cf. RC620+ Deficiency diseases
137          General works
  Hunger
138          General works
138.5        Starvation
139          Thirst
Nutrition
  Cf. RA784 Personal hygiene
  Cf. RG559 Pregnancy
  Cf. RM214+ Diet therapy
  Cf. SF94.5+ Animal culture. Feeding and feeds
  Cf. TX551+ Home economics
141.A1        Periodicals, societies, congresses, serial publications
141.A2-Z      General works, treatises, and textbooks
  Study and teaching. Research
143          General works
  Research techniques
143.4         General works
143.5.A-Z     Special, A-Z
143.5.A58     Anthropometric assessment
143.5.M37     Mathematical models
143.5.R33     Radioactive tracers
143.5.S73     Stable isotope tracers
143.7         Nutrient interactions
144.A-Z       Other special topics, A-Z
144.A77       Avocado
144.B48       Beverages
144.C46       Chocolate. Cocoa
144.C58       Citrus fruit
  Cocoa see QP144.C46
144.C63       Coconut
  Dairy products see QP144.M54
144.E44       Eggs
144.F52       Fiber
144.F56       Fish. Seafood. Marine products
144.F78       Fruit
144.F85       Functional foods
144.G45       Genetics
144.G73       Grain
  Marine products see QP144.F56
144.M43       Meat
144.M54       Milk. Dairy products
144.O44       Oilseeds. Vegetable oils
  Including individual oilseeds and vegetable oils
144.R53       Rice
  Seafood see QP144.F56
Nutrition
Other special topics, A-Z -- Continued
  Vegetable oils see QP144.O44
144.V44
  Vegetables
  Physiology of the digestive tract. Digestion
145
  General works
  Special organs
    Mouth. Pharynx. Esophagus
      Cf. QP88.6 Teeth
      Cf. QP188.S2 Salivary glands
146
  General works
147
  Ingestion. Eating
148
  Deglutition
149
  Mastication
150
  Drinking
151
  Stomach
      Cf. QP193 Gastric juice
156
  Intestines
157
  Peritoneum. Mesentery and omentum
159
  Feces
165
  Absorption
  Metabolism
      Cf. QH634.5 Cell metabolism
171
  General works
176
  Energy metabolism
177
  Relation of oxygen to metabolism
      Including oxidation, anoxemia, etc.
180
  Gastrointestinal motility
185
  Liver. Gallbladder
      Cf. QP197 Bile
185.3
  Bile ducts
  Glands
186
  General works
  Endocrinology. Endocrine glands
      Cf. QP252+ Reproductive endocrinology
      Cf. QP356.4 Neuroendocrinology
      Cf. QP356.45 Behavioral endocrinology
      Cf. RC648+ Endocrine diseases
187.A1
  Periodicals, societies, congresses, serial publications
187.A4-Z
  General works, treatises, and textbooks
187.3.A-Z
  Special topics, A-Z
187.3.A28
  Adaptation
187.3.A34
  Aging
187.3.C44
  Cellular control mechanisms
187.3.D38
  Data processing
187.3.E93
  Exercise
187.3.M36
  Mathematical models
Glands
Endocrinology. Endocrine glands
Special topics, A-Z -- Continued
187.3.M64 Molecular endocrinology
187.3.S42 Second messengers
187.5 Endocrine genetics
187.6 Developmental endocrinology
Individual endocrine glands see QP188.A+

Exocrine glands
187.7.A1 Periodicals, societies, congresses, serial publications
187.7.A4-Z General works, treatises, and textbooks
188.A-Z Special glands, A-Z
188.A28 Adrenal cortex
188.A3 Adrenal glands
188.A33 Adrenal medulla
188.A6 Aortic paraganglia
188.C35 Chromaffin cells
188.H88 Hypothalamic-pituitary-adrenal axis
188.H9 Hypothalamic-hypophyseal system
  Cf. QP188.P58 Pituitary gland
  Cf. QP356.4 Neuroendocrinology
  Cf. QP383.7+ Hypothalamus
Islands of Langerhans see QP188.P26
188.M3 Mammary glands
  Cf. QP246 Milk
188.P26 Pancreas. Islands of Langerhans
  Cf. QP195 Pancreatic juice
188.P3 Parathyroid gland
188.P55 Pineal body
188.P58 Pituitary gland
  Cf. QP188.H9 Hypothalamic-hypophyseal system
188.S2 Salivary glands
  Cf. QP191 Saliva
188.S26 Salt glands
188.S43 Sebaceous glands
  Cf. QP222 Sebum
188.S7 Spleen
188.S9 Sweat glands
  Cf. QP221 Sweat
188.T4 Tear glands. Lacrimal organs
  Cf. QP231 Tears
188.T5 Thymus gland
188.T54 Thyroid gland

Secretions
190 General works, treatises, and textbooks
Digestive organs and glands secretions
190.7 General works, treatises, and textbooks
Secretions

Digestive organs and glands secretions -- Continued

191          Saliva

193          Gastric juice
            Cf. QP552.G35 Gastric intrinsic factor

195          Pancreatic juice

197          Bile
            Cf. QP671.B5 Bile pigments
            Cf. QP752.B54 Bile acids

211          Urinary organs secretions. Urine

215          Mucous membrane secretions. Mucus

Skin secretions

220          General works, treatises, and textbooks

221          Sweat

222          Sebum

231          Lacrimal organ secretions. Tears

Other

235          Venom

246          Milk

246.5        Synovial fluid

Urinary and reproductive organs

247          General works

Urinary organs

248          General works

249          Kidneys

250          Ureters

250.5        Bladder

250.8        Urethra

Reproduction. Physiology of sex

251          General works, treatises, and textbooks

251.5        Juvenile works

Reproductive endocrinology

252          General works

252.5        Reproductive immunology

Male sex physiology

253          General works, treatises, and textbooks

255          Testes and semen
            Cf. QL966 Spermatogenesis

257          Accessory male organs
Urinary and reproductive organs
Reproduction. Physiology of sex -- Continued

Female sex physiology
259             General works, treatises, and textbooks
261             Ovary and ovulation
                Cf. QL965 Oogenesis
262             Uterus
263             Menstruation
                Cf. RJ140+ Physiology of adolescents
265             Accessory female organs
267             Hermaphroditism
273             Fertilization. Fecundation
                For fertility see QP251
275             Ovum implantation
277             Physiology of the embryo
                Cf. QL951+ Embryology (Zoology)
                Cf. QM601+ Human embryology
                Cf. RG610+ Human fetus
278             Sex differentiation
278.5           Sex determination. Genetic sex determination
                Cf. QH600.5 Sex chromosomes
                Cf. RG566 Determination of sex during pregnancy
278.53          Environmental sex determination
                Including temperature-dependent sex determination
279             Sex preselection
280             Viviparity. Ooviviparity
281             Gestation
                Cf. RG499.2+ Obstetrics
285             Parturition
                Cf. RG651+ Labor

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Including physiology of exercise
Cf. GN231+ Physical anthropology
Cf. QP114.E9 Exercise effects on heart
Cf. QP187.3.E93 Endocrinology
Cf. RC1235+ Physiology of sports

301             General works, treatises, and textbooks
303             Mechanics. Kinesiology
306             Voice and speech. Larynx
                Cf. BF463.S64 Speech perception
                Cf. MT821 Voice culture
                Cf. QM255 Larynx anatomy
                Cf. RC280.T5 Laryngeal tumors
                Cf. RC423+ Speech disorders
                Cf. RF510+ Laryngeal diseases
                Cf. TK7895.S65 Speech recognition systems
309             Work physiology

539
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310.A-Z
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310.C55
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310.D35
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310.F5
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310.G34
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Cf. SF289 Horses

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(310.H43)
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310.I7
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310.J86
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310.P5
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310.R45
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310.R85
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310.S77
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310.S95
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310.T9
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310.W3
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310.W7
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310.3
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310.5
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311
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Cf. QP113.2 Myocardium

321
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321.5
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Cf. QP110.V37 Vascular muscle

322
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323
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325
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327
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330
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333
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334
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By region
Lower extremities -- Continued
335 General works
336 Foot
341 Electrophysiology
  Cf. QL639.1 Fishes
  Cf. QP372.9 Galvanic skin response
  Cf. QP447.5 Electroreceptors
345 Magnetic field generation
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351 Periodicals, societies, congresses, serial publications
352 Collected works (nonserial)
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353.3 Individual, A-Z
354 Early works through 1800
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355 1801-1969
355.2 1970-
356 Special aspects of the subject as a whole
356.15 Comparative neurobiology
356.2 Molecular neurobiology
356.22 Neurogenetics
356.25 Developmental neurophysiology
356.3 Neurochemistry. Brain chemistry
356.4 Neuroendocrinology
  Cf. QP188.H9 Hypothalamo-hypophyseal system
356.45 Psychoneuroendocrinology. Behavioral endocrinology
356.47 Neuroimmunology
356.5 Radiation effects on the nervous system
357 Laboratory manuals
  Cf. BF79 Psychology laboratory manuals
357.5 Data processing
359 Miscellany and curiosa
Neuropsychology. Physiological psychology.
  Psychophysiology
    Cf. BF1+ Psychology
360 General works
360.5 Cognitive neuroscience
360.6 Neuroanthropology
360.7 Neuroergonomics
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361 General works, treatises, and textbooks
361.5 Juvenile works
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363          Miscellaneous general functions
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363.2          Neuroglia
363.3          Neural circuitry. Neural networks
363.5          Neurogenesis. Developmental neurobiology
364          Synapses
364.5          Neural transmission
364.7          Neurotransmitters. Neurotransmitter receptors
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367          Spinal nerves
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368          Sympathetic nervous system
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369          Neuromuscular transmission. Myoneural junction
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371          Spinal cord
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372.8          Visceral reflex
372.9          Galvanic skin response
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        Cf. QP356.3 Neurochemistry
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376.8          General works
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384.3                   Encephalic photoreceptors
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388                   Brain stimulation techniques
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389                   Association of ideas see BF365+

395                   Higher nervous activity
396                   Information processing
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398 Intellect
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   Cf. QP306 Speech

401 Emotions. Pleasure and pain
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402 Personality

405 Attention and volition

406 Memory
   Cf. BD181.7 Philosophy
   Cf. BF370+ Psychology

408 Learning
   Cf. BF318 Psychology
   Cf. LB1060+ Education

409 Motivation
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411 Consciousness, subconsciously, and
   unconsciousness

416 Conditioned response

421 Fatigue
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   Cf. QP321+ Muscle

425 Sleeping. Hypnotic conditions, etc.
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426 Dreaming
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427 Napping

430 Other special topics (not A-Z)

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434 Juvenile works

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442 Intersensory effects. Multisensory processing
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    477.8 Cornea
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    493 Movement
    494 Peripheral vision
    495 Optical illusions
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      Cf. QR148 Microbiological chemistry
      Cf. RB112.5 Clinical biochemistry
      Cf. RS400+ Pharmaceutical chemistry
    501 Periodicals, societies, congresses, serial publications
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517.B49 Bioconjugates
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517.B54 Bioenergetics
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517.B57 Biosynthesis
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517.B59 Biotransformation
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519.9.E433
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519.9.E434
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Technique. Analytical biochemistry
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519.9.F58  Fluorimetry
519.9.G37  Gas chromatography
519.9.G42  Gel electrophoresis
519.9.G44  Gel permeation chromatography
519.9.H53  High performance liquid chromatography
519.9.I42  Immunoassay
519.9.I43  Immunoblotting
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519.9.I44  Immunoenzyme technique
519.9.I48  Infrared spectroscopy
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519.9.I8  Isoelectric focusing
519.9.I84  Isotachophoresis
519.9.I87  Isotopes
519.9.L37  Laser spectroscopy
519.9.L55  Liquid chromatography
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519.9.M3  Mass spectrometry
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  519.9.T55     Thin layer chromatography
  519.9.T59     Time-resolved spectroscopy
  519.9.T84     Two-dimensional electrophoresis
  519.9.U47     Ultracentrifugation
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  519.9.V65     Voltage-sensitive dyes
  519.9.W47     Western immunoblotting
  519.9.X72     X-ray crystallography
  519.9.X73     X-ray spectroscopy
  520     Handbooks, tables, formulas, etc.
  521     Miscellany and curiosa
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  529     General works
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      552.A43     Albumins
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Proteins, amino acids, etc.
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552.A45 Amyloid
552.A56 Antifreeze proteins
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552.A65 Aquaporins
552.A87 ATP-binding cassette transporters
552.A94 Avidin
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552.E55 Enkephalins
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552.E95 Extracellular matrix proteins
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Organic substances
Proteins, amino acids, etc.
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Proteins, amino acids, etc.

Special proteins (other than amino acids, enzymes, or hormones), A-Z -- Continued

552.M54
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552.M93
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552.N37
Nerve proteins

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552.N39
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552.N4
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552.N43
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562.C9 Cystine
562.D53 Diamino amino acids
562.G5 Glutamic acid
562.G55 Glutamine
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563.C5  Citrulline
563.D5  Dihydroxyphenylalanine
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  603.C85                         Cytochrome oxidase
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  603.G55                         Glucose dehydrogenase
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  603.H55                         Histaminase
  603.H88                         Hydrogenase
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  603.H92                         Hydroxymethylglutaryl coenzyme A reductases
  603.I54                         IMP dehydrogenase
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<td>603.S94</td>
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<td>603.T78</td>
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Tyrosinase see QP603.P43

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General works, treatises, and textbooks

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<td>Protein-tyrosine kinase</td>
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<td>606.R48</td>
<td>Reverse transcriptase</td>
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   609.A438                         Amidases
   609.A44                         Aminopeptidases
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   609.A53                         Angiotensin converting enzyme
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702.S75 Starch
702.S8 Sucrose
702.S85 Sugars
702.X87 Xylans
Animal biochemistry
  Special substances
    Organic substances
      Carbohydrates
        Special, A-Z -- Continued
  702.X89                Xylitol
  702.X9                 Xylose

Lipids
  Cf. TP676 Chemical technology of animal fats and oils
  Cf. TX553.L5 Lipids as a food constituent

  751                General works, treatises, and textbooks
  752.A-Z            Special, A-Z
    752.A25           Acetic acid
    752.A5            Androstane
    752.A7            Arachidonic acid
    752.B54           Bile acids
      Bile pigments see QP671.B5
    752.C37           Ceramides
    752.C4            Cerebrosides
      Cholesterin see QP752.C5
    752.C5            Cholesterol
    752.C53           Cholesterol oxides
    752.C55           Cholic acid
    752.C6            Corticosteroids
    752.C7            Croton oil
    752.D54           Diglycerides
    752.D63           Docosahexaenoc acid
    752.E53           Eicosanoids
    752.E84           Essential fatty acids
    752.F3            Fats
    752.F35           Fatty acids
    752.F57           Fish oils
    752.G3            Gangliosides
    752.G5            Glycerides
      Glycerin see QP752.G55
    752.G55           Glycerol
    752.G56           Glycolipids
    752.G58           Glycosphingolipids
    752.I8            Isobutyric acid
      Isopentenoids see QP752.T47
      Isoprenoid compounds see QP752.T47
    752.L4            Lecithin
    752.L5            Linoleic acids
    752.L515          Linolenic acids
    752.L52           Lipoxins
    752.L8            Lysolecithin
Animal biochemistry
Special substances
Organic substances
Lipids
  Special, A-Z -- Continued
  752.L83                    Lysophospholipids acid
  752.M45                    Membrane lipids
  752.M9                     Myelin
  752.O42                    Olive oil
  752.O44                    Omega-3 fatty acids
  752.O45                    Omega-6 fatty acids
  752.O89                    Oxysterols
  752.P35                    Palm oil
  Phosphatides see QP752.P53
  752.P52                    Phosphoinositides
  752.P53                    Phospholipids
  752.P62                    Platelet activating factor
  752.P65                    Polyketides
  752.P69                    Prostacyclin
  Prostaglandins see QP801.P68
  752.P7                     Protagon
  752.P84                    Pulmonary surfactant
  752.S37                    Saturated fatty acids
  752.S6                     Sphingolipids
  Steroid hormones see QP572.S7
  752.S7                     Steroids
  752.S75                    Sterols
  752.T47                    Terpenes. Isopentenoids. Isoprenoid compounds
  752.T63                    Trans fatty acids
  752.T7                     Tributyrin
  752.T74                    Triglycerides
  752.W3                     Waxes

Vitamins
  771                        General works, treatises, and textbooks
  772.A-Z                    Special, A-Z
  Adermine see QP772.P9
  772.A4                     Aminobenzoic acids
  Aneurine see QP772.T5
  Antihemorrhage vitamin see QP772.V55
  Antipernicious anemia vitamin see QP772.C9
  Antirickets vitamin see QP772.V53
  Antiscurvy vitamin see QP772.A8
  Antisterility vitamin see QP772.T6
  Antixerophthalmia vitamin see QP772.V5
  772.A8                     Ascorbic acid. Vitamin C
  772.B5                     Bioflavonoids. Vitamin P
  772.B55                    Biotin. Vitamin H
Animal biochemistry
Special substances
Organic substances
Vitamins

Special, A-Z -- Continued

772.C3  
Carnitine. Vitamin BT

772.C5  
Choline

772.C9  
Cyanocobalamine. Vitamin B12

772.E74  
Ergocalciferol. Vitamin D2

772.F37  
Fat-soluble vitamins
Folac in see QP772.F6

772.F6  
Folic acid. Vitamin M

772.I5  
Inositol
Lipoic acid see QP772.T54
Niacin see QP772.N55
Niacin amide see QP772.N5

772.N5  
Nicotinamide. Vitamin PP

772.N55  
Nicotinic acid. Niacin
Nicotinic acid amide see QP772.N5

772.P3  
Pangamic acid. Vitamin B15

772.P35  
Pantothenic acid. Vitamin B5
Pellagra preventive factor see QP772.N5
Pteroylglutamic acid see QP772.F6

772.P9  
Pyridoxine. Vitamin B6
Retinol see QP772.V5

772.R5  
Riboflavin. Vitamin B2

772.T5  
Thiamine. Vitamin B1

772.T54  
Thioctic acid

772.T6  
Tocopherol. Vitamin E

772.V5  
Vitamin A

772.V52  
Vitamin B complex
Vitamin B1 see QP772.T5
Vitamin B2 see QP772.R5
Vitamin B5 see QP772.P35
Vitamin B6 see QP772.P9
Vitamin B12 see QP772.C9
Vitamin B15 see QP772.P3
Vitamin BT see QP772.C3
Vitamin C see QP772.A8

772.V53  
Vitamin D
Vitamin D2 see QP772.E74
Vitamin E see QP772.T6
Vitamin G see QP772.R5
Vitamin H see QP772.B55

772.V55  
Vitamin K

772.V56  
Vitamin K2
Vitamin M see QP772.F6
Animal biochemistry
Special substances
Organic substances
Vitamins

Special, A-Z -- Continued
Vitamin P see QP772.B5
Vitamin PP see QP772.N5

772.W38
Water-soluble vitamins

801.A-Z
Miscellaneous organic substances, A-Z

801.A25
Acetone
801.A26
Acids
801.A265
Acyclic acids
801.A3
Alcohol
801.A33
Aldehydes
801.A34
Alkaloids
801.A35
Allantoin
801.A48
Amines
801.A63
Antibiotics
801.A65
Antimetabolites
801.A66
Antioxidants
801.A67
Antivitamins
801.A75
Aromatic compounds
801.A84
Aspartame
801.B5
Benzene
801.B52
Benzimidazoles
801.B53
Benzodiazepines
801.B54
Benzoylecgonine
801.B55
Betaines
801.B66
Biogenic amines
801.B69
Biopolymers
801.C24
Caffeine
801.C27
Cannabis
801.C3
Carbolic acid
801.C3115
Carbolines
801.C312
Carboxylic acids
801.C33
Catecholamines
801.C4
Cerebrin
801.C48
Chlorophenols
801.C63
Citrates
801.C65
Citric acid
Coca see QP801.C68
801.C67
Cocaethylene
801.C68
Cocaine
801.C69
Colchicine
801.C7
Colicins
801.C75
Complex compounds
801.C8
Creatine. Creatinine

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Animal biochemistry
Special substances
Organic substances
Miscellaneous organic substances, A-Z -- Continued

801.C83
Crown ethers
801.C86
Cyclic adenylic acid
Cynurenic acid see QP801.K8
801.E28
Ecstasy (Drug)
801.E325
EDDP (Pyrrolidine derivative)
801.F45
Flavor components
801.F5
Fluorine organic compounds
801.F67
Formaldehyde
801.F87
Furylbenzimidazole
801.G47
Germanium organic compounds
801.G56
Glucaric acid
801.G57
Glutaric acid
801.G63
Glycolic acid
(801.G74)
Growth factors
see QP552.G76
801.G8
Guanidine
801.G83
Guanidines
801.H34
Halogen organic compounds
801.H45
Hippuric acid
801.H5
Histamine
801.H78
Hydrazines
801.H9
Hydrocarbons
801.I4
Indican (metabolic product)
801.I43
Indocyanine green
801.I45
Indole
Inositol see QP772.I5
801.I48
Insecticides
Interleukins see QR185.8.I56
801.I55
Ionophores
(801.I76)
Isoprenoid compounds
see QP752.T47
801.K4
Ketones
801.K8
Kynurenic acid
801.L3
Lactic acid
Leucomaines see QP801.P7
801.L47
Leukotrienes
801.L53
Lignans
801.L97
Lysergic acid diethylamide
Macromolecules see QP801.P64
Marijuana see QP801.C27
801.M37
Mercapto compounds. Thiols
801.M39
Metformin
801.M42
Methoxyhydroxphenylglycol
Animal biochemistry  
   Special substances  
   Organic substances  
      Miscellaneous organic substances, A-Z -- Continued

801.M425 Methylxanthines
801.M43 Metiamide
801.M45 Mevalonic acid
Milk, Human see QP246
801.N44 Neopterin
801.N48 Nicotine
801.N55 Nitrogen organic compounds
   Organo ...
      For compounds with names beginning "Organo..." the Cutter number is determined by the element or substance following this prefix

801.O74 Orotic acid
801.O8 Oxalic acid
801.P28 Pantethine
801.P36 Penicillin
801.P374 Pentoxifylline
801.P38 Pesticides
801.P39 Phenethylamines
801.P4 Phenols
801.P56 Phosphonic acids
801.P63 Phosphorus organic compounds
801.P634 Phytic acid
801.P636 Phytochemicals
801.P638 Polyamines
801.P639 Polycyclic aromatic hydrocarbons
801.P64 Polymers. Macromolecules
801.P643 Polyurethanes
801.P654 PQQ
801.P68 Prostaglandins
801.P686 Psoralens
801.P69 Pteridines
801.P7 Ptomaines. Leucomaines
801.P8 Purines
801.P85 Pyrimidines
801.P855 Pyrrolizidines
801.P86 Pyruvic acid
801.Q5 Quinones
801.R4 Reductones
801.R47 Retinoids
801.S4 Serotonin
801.S44 Shikimic acid
801.S47 Sialic acid
801.S79 Succinic acid
Animal biochemistry
   Special substances
      Organic substances
         Miscellaneous organic substances, A-Z -- Continued

801.S83                Sugar acids
801.S85                Sulfonic acids
801.T3                 Taurine
   Tetrahydrocannabinol see QP801.C27
801.T4                 Thiocyanates
   Thiols see QP801.M37
801.T57                Tobacco
801.T6                 Tolylenediamine
801.U24                Ubiquinones
801.U7                 Urea
   Vitamins see QP771+
801.X45                Xenobiotics

(901-981)    Experimental pharmacology
   The Library of Congress has not classed new material on
   experimental pharmacology in these numbers since
   approximately 1981.
   For works on the physiological effects of chemical
   substances on the animal body see QP501+
   For works on experimental toxicology see RA1199+
   For works on experimental pharmacology in general see
   RM301.25+

(911-981)    Individual chemical substances
   see QP525+ for the physiological effects of individual chemical
   substances on the animal body
   For works on the physiological effects of drugs on the
   human body see RM300+
Microbiology

1    Periodicals, societies, congresses, serial publications
6    Collected works (nonserial)
9    Dictionaries and encyclopedias
11   Terminology, notation, abbreviations
12   Classification. Nomenclature
     Cf. QR81 Bacteria
     Cf. QR394 Viruses
13   Evolution
21   History
     General works
22.A-Z  By region or country, A-Z

Biography
30   Collective
     e.g.
31.F5   Fleming, Alexander
31.K6   Koch, Robert
         Pasteur, Louis see Q143.P2

General works, treatises, and textbooks

41   Through 1969
41.2  1970-
     By discipline
46   Medical microbiology
     Cf. QR67+ Diagnostic technique
     Cf. QR171.A1+ Microorganisms in the animal body
     Cf. RC109+ Infections and parasitic diseases
46.5  Pharmaceutical microbiology
47   Dental microbiology
     Cf. RK325 Oral sepsis
48   Sanitary microbiology
     Cf. QR105+ Aquatic microbiology
     Cf. TD1+ Sanitary engineering
     Veterinary microbiology see SF780.2
51   Agricultural microbiology
     Cf. QR111+ Soil microbiology
     Cf. QR121 Dairy microbiology
     Cf. QR351 Microorganisms of plant diseases
     Geomicrobiology see QR103

Industrial microbiology
     Cf. QR115+ Food microbiology
     Cf. QR135+ Microbial degradation
     Cf. QR151+ Microorganisms of fermentation
     Cf. TP248.27.M53 Microbial biotechnology

53   General works, treatises, and textbooks
53.5.A-Z  By industry or products, etc., A-Z
53.5.A44  Alloys
By discipline
    Industrial microbiology
        By industry or products, etc., A-Z -- Continued
          53.5.C73            Coal
          53.5.C76            Cosmetics
          53.5.P48            Petroleum
          53.5.R34            Railroads
                          Including railroad tracks, railroad ties, railroad beds, etc.

54    Pictorial works and atlases
56    Popular works
57    Juvenile works
58    Addresses, essays, lectures
60    Special aspects of the subject as a whole
      Study and teaching. Research
          61       General works
          61.5     Problems, exercises, examinations
          61.7     Experiments
          62       Outlines, syllabi
          63       Laboratory manuals

Laboratories
          Cf. R108 Medical laboratories
          64.A1       General works
          64.A3-Z     By region or country, A-Z
                          Subarrange each country by Table Q6
          64.5       Culture collections
          64.7       Safety measures
          64.8       Quality control

Technique
          65       General works
          66       Culture technique
          66.3     Culture media
          66.4     Continuous culture
          67       Diagnostic technique
          67.2     Diagnostic bacteriology

Microscope technique
          Cf. QH201+ Microscopy
          68       General works
          68.5.A-Z  Special, A-Z
          68.5.E45  Electron microscopy
          69.A-Z    Special topics, A-Z
          69.A56    Anti-infective agent testing
          69.A57    Antibiotic testing
                          Antiinfective agent testing see QR69.A56
          69.A88    Automation
          69.B53    Bioluminescence assay
Technique

Special topics, A-Z -- Continued

69.C3  Cataphoresis
69.C79  Cryopreservation
69.D35  Data processing
69.D48  Disintegration
69.D54  DNA probes
69.E43  Electric impedance measurement
69.E58  Enzyme-linked immunosorbent assay
69.F56  Flow cytometry
69.F7   Freeze-drying. Drying
69.G27  Gas chromatography
69.H54  High performance liquid chromatography
69.I53  Inactivation
69.M33  Mass spectrometry
69.M48  Microbiological assay
69.M5   Micrurgy
69.N83  Nuclear magnetic resonance spectroscopy
69.P6   Population counts
69.S7   Staining
69.S75  Sterilization
69.V53  Viability counts

71  Laboratory equipment
72  Statistical methods
72.5  Handbooks, manuals, etc.

Microbial genetics see QH434

73  Diversity and variation
    Cf. QR392 Virus variation

73.4  Development
73.5  Differentiation
73.6  Aggregation
73.7  Cell cycle
73.8  Microbial populations

74  Molecular microbiology

74.5  Protista
    Cf. QK564+ Algae
    Cf. QK600+ Fungi
    Cf. QK635.A1+ Slime molds
    Cf. QL366+ Protozoa

Bacteria

74.8  General works
    Morphology. Ultrastructure

75  General works
75.3  Size
75.5  Shape
76  Protoplasts
76.3  Protoplasts
Bacteria
Morphology. Ultrastructure -- Continued

76.5          Nuclear materials
76.6          Plasmids
76.7          Pigments
77          Cell membranes
    Cell walls
77.3          General works
77.35          Cell surfaces
77.5          Capsules. Slime layers. Glycocalyces
78          Flagella
78.5          Pili
79          Spores
79.5          Colonies
80          Terminology, notation, abbreviations
81          Classification. Nomenclature
81.5          Catalogs and collections
81.7          Evolution
82.A-Z          Systematic divisions. By family or higher taxa, A-Z
    Class individual genera under the family.
    For unassigned genera and species see QR82.Z9
    For bacteria of specific diseases see QR201.A+
82.A3          Achromatiaceae
82.A35          Actinomycetaceae
82.A355          Actinoplanaceae
82.A39          Aegyptianella
    Aerobacter cloacae see QR82.E6
82.A43          Aeromonadaceae
82.A69          Archaebacteria
82.A9          Azotobacteraceae
82.B3          Bacillaceae
82.B35          Bacteroidaceae
82.B4          Beggiatoaceae
82.B95          Brucellaceae
82.C35          Chlamydiaceae
82.C4          Chlorobiaceae
82.C45          Chromatiaceae
82.C6          Corynebacteriaceae
82.C88          Cystobacteraceae
82.C9          Cytophagaceae
82.D37          Deinococcaceae
82.D4          Dermatophilaceae
82.E6          Enterobacteriaceae
82.F7          Frankiaceae
82.H35          Halobacteriovoraceae
82.L3          Lactobacillaceae
82.L4          Leucotrichaceae
Systematic divisions. By family or higher taxa, A-Z -- Continued

82.M38  Methylobacteriaceae
82.M4    Methylomonadaceae
82.M45   Microbacteriaceae
82.M5    Micrococcaceae
82.M55   Micromonosporaceae
82.M8    Mycobacteriaceae
82.M95   Myxococcaceae
82.N4    Neisseriaceae
82.N5    Nitrobacteraceae
82.N6    Nocardiaceae
82.P25   Pasteurellaceae
82.P44   Pelonemataceae
82.P45   Peloplocaceae
82.P47   Peptococcaceae
82.P6    Polyangiaceae
82.P7    Propionibacteriaceae
82.P78   Pseudomonadaceae
82.R45   Rhizobiaceae
82.R46   Rhodospirillaceae
82.R47   Rhodospirillales
82.S5    Simonsiellaceae
82.S6    Spirillaceae
82.S7    Spirochaetaceae
82.S78   Streptococcaceae
82.S8    Streptomycetaceae
82.T7    Treponemataceae
82.V4    Veillonellaceae
82.V53   Vibrionaceae
82.Z9    Genera and species as yet unassigned (not A-Z)

Physiology

84  General works
    Growth
    Cf. QR66+ Culture technique
84.5  General works
84.7  Psychrophilic bacteria
84.8  Thermophilic bacteria
86  Nutrition
86.5  Reproduction

Metabolism

88  General works
88.2  Autotrophy
88.3  Biosynthesis
88.4  Methylootrophy
88.5  Photosynthesis
    Cf. QK882 Plant physiology
88.7  Chemoautotrophy

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Bacteria
Physiology
Metabolism -- Continued
Respiration
89 General works
89.5 Anaerobic
89.7 Nitrogen fixation
Cf. TP245.N8 Chemical engineering
90 Enzymes
92.A-Z Other substances, A-Z
92.A3 Acetic acid
92.A49 Alkanes
92.A6 Amino acids
92.B3 Bacteriocins
92.B7 Branched chain amino acids
92.C27 Calcium
92.C3 Carbohydrates
92.C33 Carbon dioxide
92.C55 Chlorinated aromatic compounds
92.C57 Citric acid
92.C74 Creatine
92.D45 Deoxyribonucleic acid. DNA
DNA see QR92.D45
92.F3 Fatty acids
92.F87 Furans
92.G35 Galactose
92.G5 Glucose
92.H6 Hormones
92.H8 Hydrogen
92.I4 Immunoglobulin-binding proteins
92.I7 Iron
92.L5 Lipids
92.M45 Metals
92.M46 Methane
92.M47 Methyl groups
92.M5 Minerals
92.N5 Nicotinic acid
92.N6 Nitrogen
92.N8 Nucleic acids
92.N82 Nucleotides
Oxygen see QR89+
92.P37 Peptides
92.P39 Peptidoglycans
92.P4 Phenols
92.P45 Phosphates
92.P58 Poly-beta-hydroxyalkanoates
92.P59 Polymers

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Bacteria

Physiology

Metabolism

Other substances, A-Z -- Continued

92.P6  Polysaccharides
92.P7  Propionic acid

Protein A, Staphylococcal see QR92.S68
92.P75  Proteins
92.P87  Purines
92.S3  Salts
92.S53  Siderophores
92.S68  Staphylococcal protein A
92.S7  Steroids
92.S79  Sugars
92.S8  Sulfur
92.V5  Vitamins
92.X35  Xanthan gum

93  Anhydrobiosis
94  Heat production
95  Light production
96  Motility. Irritability
96.5  Interaction. Communication
96.8  Adhesion

Environmental factors

97.A1  General works
97.A2-Z  By factor, A-Z
97.A3  Acidity. Alkalinity. Hydrogen-ion concentration

Alkalinity see QR97.A3
97.A57  Anti-infective agents
97.A58  Antibiotics
97.B32  Bactericides
97.C3  Carbon dioxide
97.C5  Chemicals
97.E5  Electrolytes
97.H4  Heat

Hydrogen-ion concentration see QR97.A3
97.L5  Light
97.M34  Magnetism
(97.M6)  Moisture

see QR97.W37
97.O8  Oxygen
97.P47  Pesticides
97.P7  Pressure
97.R3  Radiation
97.S3  Salinity
Bacteria
Physiology
Environmental factors
By factor, A-Z -- Continued

97.T4
Temperature
Cf. QR84.7 Psychrophilic bacteria
Cf. QR84.8 Thermophilic bacteria

97.W37
Water. Moisture

97.X46
Xenobiotics
Antibiosis
Cf. QP801.A63 Biochemistry of antibiotics
Cf. QR69.A57 Testing
Cf. QR175 Virulence
Cf. RM265+ Antibiotic therapy
Cf. RM666.A+ Pharmacology of individual antibiotic drugs
Cf. RS431.A6 Pharmaceutical chemistry of antibiotics

99
General works

99.5
Resistance

Cyanobacteria

99.6
Periodicals. Serials

99.62
Conferences

99.63
General works, treatises, and textbooks

99.64
Pictorial works and atlases

99.65
Popular works

99.66
Juvenile works

99.67
Classification. Nomenclature

99.69.A-Z
Special topics, A-Z

99.69.B55
Blooms
Cyanobacterial blooms see QR99.69.B55

99.7.A-Z
Systematic divisions. By family, A-Z

99.7.E57
Entophysalidaceae

99.7.N67
Nostocaceae

99.7.O82
Oscillatoriaceae

99.7.S39
Scytonemataceae

99.7.S85
Stigonemataceae

99.8.A-Z
By region or country, A-Z

Microbial ecology. Geographical distribution

100
General works, treatises, and textbooks

100.8.A-Z
By type of relationship, A-Z

100.8.B55
Biofilms

100.8.C65
Competition

100.8.D46
Denitrification
Including denitrifying bacteria

100.8.M37
Mats

100.8.S9
Symbiosis
By type of environment

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Microbial ecology

By type of environment -- Continued

100.9  Extreme environments (General)
101    Air and dust
103    Geomicrobiology. Microbial effect on geological processes
       Water. Aquatic microbiology
105    General works
105.5  Freshwater
       Cf. TD384 Water supply analysis
106    Seawater. Marine microbiology
       General works
106.5  Hydrothermal vents
107    Hot springs. Calderas

Soil
       Including soil fungi
       Cf. QK604.2.M92 Mycorrhizal fungi
111    General works
113    Root nodules
       Cf. S652 Soil inoculation

Foods
       Cf. TP371.2+ Preservation in food processing
       Cf. TX599+ Food preservation in the home
115    General works
116    Eggs
117    Meat
118    Fish. Shellfish
119    Breads. Cereals
121    Dairy products
       Cf. SF253 Milk analysis
122    Fruit. Vegetables (General)
123    Canned foods
129.A-Z Other food products, A-Z
129.B44  Beer
129.C6   Corn oil
129.F7   Fruit juice
129.P76  Processed foods
129.R44  Refrigerated foods
129.S8   Sugar
129.T65  Tomatoes
130    Space microbiology
131.A-Z Other environments, A-Z
131.G58  Glaciers
       Pathogenic fungi see QR245+
       Microbial degradation
135    General works
135.5.A-Z Special substances, A-Z
135.5.C65 Compost
Microbial degradation
   Special substances, A-Z -- Continued

135.5.M37      Metals
135.5.P47      Pesticides

148      Microbiological chemistry
   Cf. QK861+ Plant biochemistry
   Cf. QP501+ Animal biochemistry
   Cf. QR88.3 Bacterial biosynthesis
   Cf. QR467 Biochemistry of viruses

Microorganisms of fermentation. Yeasts, etc.
   Including diseases of wine and beer
   Cf. TP371.44 Preserving food by fermentation
   Cf. TP568+ Brewing

151      General works
(155)      Yeasts and yeastlike fungi in the body
   see QR171

160      Microorganisms of cellulose and other plant products
Microorganisms in the animal body
   Cf. QR201.A+ Pathogenic microorganisms
   Cf. QR245+ Pathogenic fungi
   Cf. QR301+ Pathogenic fungi
   Cf. RM666.P835 Probiotics

171.A1      General works, treatises, and textbooks
171.A2-Z    By organ or system, etc., A-Z
171.A43      Alimentary canal
171.B5      Blood
171.E9      Eye
171.F4      Feces. Manure
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